Rattus no Mus muscu

AX419948 Sequence
AX62847 Rattus no
RC080647 Homo sapi
AR091979 Sequence
AR12114 Sequence
AR12114 Sequence
AR474634 Sequence
AR474634 Sequence
AR474634 Sequence
AR474639 Sequence
AR4763520 Sequence
AR4763732 Homo sapi
AF46789 Sus scrof
AY283277 Oryctolag
AY42853 Tupaia be
AR019384 Bos tauru
AR763178 Sequence
AR515445 Homo sapi
AY281278 Oryctolag
AY281278 Sequence
AF515445 Homo sapi
AY281279 Synthetic

AR635204 HSCLA1GNA CQ868669 BC093732

AR474634

11243.8 1174.2 11139.4 11139.4 11136.2 11136.2 11136.2 11135.4 11139.4 111090.4

AF467889 AY283277 AY428553

AF019384

1062.6 1059.8

AY682847 BC080647 AR091979 AR112114 AR149156 AR261646

CQ842792 Sequence AK124112 Homo sapi CQ722206 Sequence

AY892789 BT008093

ALIGNMENTS

```
February 23, 2006, 17:38:47; Search time 9015.06 Seconds (without alignments) 11274.030 Million cell updates/sec
                                                                                                                          1788
1 GCCACCTGCAGGGCTACTGC......CTCTCTCAGCGGACAGTCGC 1788
         GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                          5883141 segs, 28421725653 residues
                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                 OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                           summaries
                                                                                                                                                         IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 su
                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                US-08-765-108-3
                                                                                                                                                                                                                                                                                                                                                        9b_om:

9b_pt:

9b_pt:

9b_pt:

9b_pt:

9b_et:

9b_w:

9b_w:

9b_vi:

9b_vi:

9b_vi:

9b_vi:
                                                                                                                                                                                                                                                                                                                         gb_ba:*
gb_in:*
gb_env:*
                                                                                                                                                                                                                                                                                                                GenEmbl:*
                                                                                                                       Perfect score:
Sequence:
                                                                                                                                                          Scoring table:
                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                 Database
                                                                      Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	AR078244 Sequence	AR195308 Sequence	AR222273 Sequence	U11453 Cricetulus	AR091980 Sequence	AR112115 Sequence	AR149157 Sequence	CQ868666 Sequence	BC004656 Mus muscu	AB002151 Rattus no	D89655 Rattus norv	BC076504 Rattus no	AY451993 Rattus no	AR078245 Sequence	AR195310 Sequence	AX305450 Sequence	U37799 Mus musculu	U76205 Rattus norv
SUMMARIES	ID	AR078244	AR195308	AR222273	CGU11453	AR091980	AR112115	AR149157	2086866	BC004656	AB002151	D89655	BC076504	AY451993	AR078245	AR195310	AX305450	MMU37799	RNU76205
	DB	9	ø	9	თ	ø	ø	9	9	6	0	0	δ	σ	9	9	9	6	σ
	Query Match Length DB	1788	1788	1788	1788	1825	1825	1825	2496	2512	2497	2392	2408	2401	1785	1785	1785	1785	1674
de	Query Match	100.0	100.0	100.0	100.0	99.9	6.66	6.66	90.6	90.6	79.0	77.8	77.8	77.2	9.92	9.92	76.6	9.94	76.2
	Score	1788	1788	1788	1788	1786	1786	1786	1441.2	1441.2	1413	1390.6	1390.6	1381	1369.8	1369.8	1369.8	1369.8	1363.2
	Result No.		8	m	4	2	9	7	60	Q,	10	11	12	13	14	15	16	17	18

Db 1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCAAACAGGGGAAGATCGAGCCCG 1380  Oy 1381 TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGGGGCATGGGCGGAGCCCCTGAACA 1440  1381 TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGGGGTGCCATGGGCGGAGCCCCTGAACA 1440  1381 TGGTCTCTCACGCAGCTGGTGGTTTTTGAGCAGGGGGGGG	RESULT 2  AR195308 LOCUS DEPINITION Sequence 3 from patent US 6350859. ACCESSION AR195308 VERSION VERSION KEYWORDS SOURCE Unknown. ORGANISM TITLE Class B1 and Cl scavenger receptors JOHENAL PRATURES  1. 1788 SOURCE AUTHORS  AUTHORS  I LOCATION/Qualifiers SOURCE JOHENAL PRATURES  1. 1788    Location/Qualifiers   Location/Qualifiers	Query Match Best Local Similarity 100.0%; Score.1788; DB 6; Length 1788; Best Local Similarity 100.0%; Pred. No. 0; Matches 1788; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	QY         1 GCCACCTGCAGGGCTACTGCTGCTCACTGCGTGAGACTCACCTTGCTGGAACGTG         60	Qy 61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTGTCCCCCTTCAGTC 120	QY         121 CCTGAGCCCCGCGAGCCGGGCGCGACATGGGCGCGCGCCAGGGCGCGCT 180	Qy         181 GGGTGGGGGCTGGGGCTGCTGTGCTGTGCGTTGTTCGTTGGTTATGA         240           Db         181 GGGTGGCGCTGGGCCTGGGGCTGTGCGTGTGCTTGTGCTTATGA         240	Oy 241 TCCTCGTGATGCCCTCGCTCAAACAGCAGGTACTGAAGAATGTCCGCTAGAACCCCA 300
	ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG	1021 ATTCACGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTTG	1081 CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140 1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140	1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200	1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGGGATT 1260 	1261 CTTIGITCCTIGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320	1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380

us-08-765-108-3.rge

1381 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCTGAACA  [1381 TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGCGGTGCCATGGGCGCGAGCCCTGAACA  [141 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCTGC  [141 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCTGCTGC  [150 TGGGGCTGGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCTGCTGC  [150 TGGGGCTGGCTGGTGCTGATGCCCCCAGGTACTACCAGTTGCGCAGCAGAGAGA  [151 TGGGGCTGGCTGGTGCTGCTGCTGCTGCTAATTGTGTGTG	OY 1561 ANIGOTITY MATTICE ANIGOTING THAN ANAGE CONTROL OF 1561 ANIGOTITY MATTICE ANIGOTIC ANIGOTIC CONTROL OF 1561 ANIGOTITY MATTITY GANGE OF 1620  OY 1621 CCTACTCTGAGTCTCTGAGTGCTAGAGAGCCAGGAGAGGCCATTCAGG 1620  OY 1621 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAGGGGGCCAGCTGCAAGAGCCAAGC 1680  Db 1621 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAGGGGCCAGGTGCTGCAAGAAGCCAAGC 1680  OY 1681 TGTAGGGTCCCAAAGACACCAGGGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740  Db 1681 TGTAGGGTCCCAAAGACACCAGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740  OY 1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788  DD 1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788  DD 1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788	RESULT 3 AR222273 AR222273 AR222273 BETINITION Sequence 3 from patent US 6429289. AR222273 ACCESSION AR222273 AR389 AVANORD Unchown. ORGANISM Unchown. ORGANISM AUTHORS AUTHORS AUTHORS Class BI and CI scavenger receptors TITLE AUTHORS AU	PEATURES  BOUICE  11788    .1788	
241 TCCTCGTGATGCCCTCGCTCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300 301 GCAGCCTGTCCTTTGCAATGTGAAGGAGATCCCTGTACCTTCTTCTCTCTC	### ##################################		961 AGTCCTGGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020	

1620 1620

```
linear ROD 26-JAN-1995
scavenger receptor haSR-BI
                                                                                                                                                                                                                                                                                                                                                                                                            1681 TGTAGGGTCCCAAAGACACCCCCCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCAT 1740
    1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    adipocytes.

Cricetulus griseus (Chinese hamster)

Cricetulus griseus (Chinese hamster)

Cricetulus griseus (Chinese hamster)

Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;

Sciurognathi; Muroidea; Cricetidae; Cricetinae; Cricetulus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            U11453.1 GI:562021
modified lipoprotein receptor; oxidized low density lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Direct Submission
Submitted (27-JUN-1994) Susan L. Acton, Biology, Massachusetts
Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA
02139, USA
                                                                                                                                                                                                                                                                                                                                            1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                          CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCACTATGTGCAGTATGTGCTGC
                                                                    CGTTCTACACGCAGCTGGTGCTCATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                 TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCAGGAGA
                                                                                                                                                                                                                                                           1501 resescrissedescercerecrecresersecestrereratives de descenses de 1501 resesentes de 1
                                                                                                                                                                                                                                                                                                     AATGCTTTTTTTTTTGGAGTGGTAGTAAAAAGGCCTCGCAGGATAAGGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                    CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGCGGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 1788)
Acton, S.L., Scherer, P.E., Lodish, H.F. and Krieger, M.
Expression cloning of SR-BI, a CD36-related class B scavenger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Cricetulus griseus"
/mol_type="mRNA"
/db_xref="taxon:10029"
/clone="phaSR=BI"
/cell_line="Chinese hamster ovary Var-261 cells"
/tissue_type="covary"
/clone_lib="Var-261 CHO library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          J. Biol. Chem. 269 (33), 21003-21009 (1994)
7520436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cricetulus griseus CD36-related class B . HASR-b1) mKNA, complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
1. .1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               156. .1685
/gene="haSR-bI"
/codon_start=1
/product="haSR-BI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .1788
/gene="haSR-bI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 (bases 1 to 1788)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             U11453
                                                                                                                                                                         1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1741
                                                                                                                                  1441
                                                                                                                                                                                                                   1501
                                                                                                                                                                                                                                                                                                     1561
                                                                                                                                                                                                                                                                                                                                                                                      1621
                                                                                                                                                                                                                                                                                                                                                                                                                                1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681
                                              1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
CGU11453
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                         ò
                                                                                   요
                                                                                                                             ò
                                                                                                                                                              g
                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            960
                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                    360
                                                                                                                                                     420
                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                            600
                                                                                                                                                                                                                                                                                                                                                                                                                                                      909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       720
301 GCAGCCTGTCCTTTGCAATGTGGAAGAAGAACCCTGTACCTTCTACTTGTCCGTCTACT 360
                                                                                                                                                                                           361 refregaderedrekareceadeadarecraaadagreadaadeeagrageedegade 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAATGGGTCTGTTTACCCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                 ATACTGTGTCCTTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       721 ATTITATCAACAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841 GCAAGATCCACCTGGTGGACAGATGGGCTCAGCAAGGTCAACTACTGCATTAG
                                                                                                                                                                                                                                                                                                                                                                                                            CTGAGAGTGACTTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                AGCAGTGCAACATGATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCTTTATGAACCGAACAGTTGGTGGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                     TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                       GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                        ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1321
                                                                  301
                                                                                                                                                     361
                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     781
                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 8
                                                                                                     용
                                                                                                                                                                              g
                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                             ૪
                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                     ઠ
                                                                                                                                                                                                                                  8
                                                                  ઢ
```

Mon

RIGIN

a Š Ą 셤 δ 셤

ò

qq ò g ઠે g ઠે 원 요 . 성

ò

```
1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1620
                                                                                                                                                                            1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-SEP-2000
                                                                                960
                   900
                                                                                                                                                             AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCCACCATG
                                                                                                                                                                                                                                                                       CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTCTCAATGGGTCTGTTGATCCGGCATTCTCTGCCCGTGCCTTGAATCCGGCATTCTCTGCCCGTGCCTTGAATCCGGCATTCT
                                                                                                                                                                                                                                                                                                                                     AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGCTTTTTATTTTTGGAGTGGTGGTAGTAAAAAGGGCTCGCAGGATAAGAGGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTACTICTERAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGGC
                                          GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                  AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                          ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                             AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                           ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         redriccriccarrecrigatirraagcaaaccaraccaracacaaccaracaaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AATGCTTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGTCCTCCCATTGCTGTGGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AR091980 1825 bp
Sequence 3 from patent US 5998141.
AR091980.1 GI:10018734
                  GCAAGATCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1501
                                                 841
                                                                                                            901
                                                                                                                                           961
                                                                                                                                                                            961
                                                                                                                                                                                                          1021
                                                                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                        1081
                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                                                                                                                                                                     1141
                                                                                                                                                                                                                                                                                                                                                                    1141
                                                                                                                                                                                                                                                                                                                                                                                                     1201
                                                                                                                                                                                                                                                                                                                                                                                                                                   1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1741
                   841
                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 5
AR091980
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                   8 8
                                                                              Š
                                                                                                     a
                                                                                                                                           ò
                                                                                                                                                                      음
                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ୁନ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           용
                                                                                            FTVFTGVQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFS
PEAGKSMKLYTHDSGVPEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLLESGIQNVSTC
REAPLFLSHPHFYNADPVLSEAVLGLNPDPREHSLFIDIHPVTGIPMNCSVKLQISL
YIKAVKGIGGTGKIEPVTAPLLWFGSGGAMGGRPLNTFYTQLVLMPOVLQYVQYVLLG
LGGLLLLVPVIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQEAK
/protein_id="AAA61572.1"
/db_xref="G1:562022"
/translation="MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNV
/translation="MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNV
ITDPSSLSFAMWKEIPVPFTLSVYFFEVVNPSBILKGEKPVVRERGPYVYREFRHKAN
ITDRNDTVSFVERHSLHFQPRSHGSBSDYIILPNILVLGGAVMMESKSAGLKLMMT
LGLATLGQRAFWRRTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGL
                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          840
                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTITIATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCGCAGTAATGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                           AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361 TCTTCGAGGTGGTCAATCCCAGGGAGATCCTAAAAGGGTGAGAAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAGCAAGTCTGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGCCTTTATGAACCGAACAGTTGGTGGAACCGTGGGGCTATGAGGGTCCCTTCGTGA
                                                                                                                                                                                                                                                                                                         GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCCAGGGCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGTGGCGCTGGGCGTCGTGGGCTGCTGTGCGCTGTGCTCGCTGTGTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGTGGCGGTGGCGTCGTGGGCCTGCTGTGCGCTGTGCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCTCGTGATGCCCTCGTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCTTCGAGGTGATCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                         Length 1788;
                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                         ..
                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                          DB
                                                                                                                                                                                                                                                                                                                                                     CTCTGTCGC
                                                                                                                                                                                                                       100.0%; Score 1788;
llarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                     AGCCTCGGCTTCTGTCATCTCT
                                                                                                                                                                                                                                       Local Similarity
les 1788; Conser
                                                                                                                                                                                                                       Query Match
Best Local S:
Matches 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                                                                                                                                                                                                                                                                                       н
                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         781
```

셤

8 6

ò 셤, 강

쉽 ઠે 셤 ઠે

941 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG [	QY         1021 ATTCAGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTTG	1081 CCAATGGGTCTGTTACCCACCCATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTCTACTGCCGTGCCTTGAATCCGGCATTCTACTGCAGGTTTCTGCAGGTTTCTGCAGGTTTCTACAATCGGGCATTCTACAATCGGGCATTCTACAATCGGGAGGTTTGGTGCACCCTGTTTCTGTCACACCCTCACTTCTACAATCTACAAATGTCAAATTAAAATGTCAAATTAAAATGTCAAATTAAAATGTCAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAATGTCAAAATTAAAAATTAAAATTAAAAAATTAAAAATTAAAAATTAAAA	Db   1141 AAANGTCAGCACTTGCAGGTTTGGTGCACCCCGGTTTCTGTCACCCCTGACTTCTACA 1200	Oy 1261 CTTTGTTCCTTGACATCCGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320	agataagcctctacatcaagctgtcaagggcattgggcaaacagggaagatcgagccg 	1381 TGGTCCTCCATTGCTGTGTTTGAGAGAGCGGTGCCATGGGCGGCGAGCCCTGAACA 1	Oy 1441 CGTTCTACACGCAGTGCTGATGCCCCAGGTACTTCACTATGTGCAGTATGTGCTGC 1500	1501 TGGGCTGGCCGCCTCCTGCTGCTGCTGCCGTCATCTACCAGTTGCGCAGGAGA 156	1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGAGGCCATTCAGG 1 	1621 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAGGGCACGGTGCTGCAAGAAGCCAAGC 168	1681 TGTAGGGTCCCAAGACACCAGGGCCCCCCAACCTGATAGCTTGGTCAACTIGAACTIGAAC	Oy 1741 CCAGCCCTACACCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786 	AR112115	GI:14092015
SOURCE ORGANISM Unknown. ORGANISM Unknown.  REFERENCE 1 (bases 1 to 1825) AUTHORS Acton, S.Laurene. TITLE Intronic and polymorphic SR-BI nucleic acids and uses therefor JOURNAL Patent: US 5998141-A 3 07-DEC-1999; PEATURES 1. 1825 /organism="unknown" /mol_type="unassigned DNA"	Query Match 99.9%; Score 1786; DB 6; Length 1825; Best Local Similarity 100.0%; Pred. No. 0; Matches 1786; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy         1 GCCACCTGCAGGGCTACTGCTGGCCCACTGCTGAACTGGTGGAACGTG         60           b	61 AGCCTGGGCTTCTGTCGTCGTCTCTGTCGCTTCTGTCGCCTTCAGTCGCCTTCAGTCTCAGTCTCAGTCTCAGTCTCAGTCTCAGTCTCAGTCTCAGTCTCAGTCAG	DB	241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA	Oy 301 GCAGCCTGTCCTTTGCAATGTGGAAGGTCCCTGTACCCTTCTACTTGTCCGTCTACT 360  Db 301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT 360	Oy         361         TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC         4.20           Db         361         TCTTCGAGGTGGTCAATCCCAAGCGACAATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC         4.20	CAATG	OY 481 ATACTGFGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT 540  Db 481 ATACTGFGGCACCGCAGCCCCCCATTTCCAGCCGGACAGGTCCCACGGCT 540	Oy 541 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGCGCGGTAATGATGG 600	OY 601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC 660	Oy 661 GIGCCITTAIGAACCGAACAGIIGGIGAGAICCIGIGGGGCTAIGAGGAICCCTICGIGA 720 	OY 721 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG 780	Qy 781 TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA 840

셤

ठे

g

ò

셤

ઠે

유

ठे

원 8 g ò 엄 8 g

ઠે

8 8

ઠે а ઠે g ઠે 음 장

셤 ઠે 셤

```
1680
                                                                                                                                                                         1020
                                                                                                                                                                                                                                                                1080
                                                                                                                                                                                                                                                                                                                                                       1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1621 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGG 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                            1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 13-SEP-2004
                                                                                                                             960
900
                                         900
                                                                                                                                                                       AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGGTCACCTACCATG
                                                                                                                                                                                                                                                              1081 CCAATGGGTCTGTTTACCCCACCCAAGGTTTCTGCCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1681 TGTAGGGTCCCAAAGACACCACCACCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1201 AIGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1501 TGGGGCTGGGGCCTCCTGCTGCTGCTCGTCATCTACCAGTTGCGCAGGGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                      GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                             1261 CTTTGTTCCTTGACATCCCTCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGCGGTGCCATGGGCGGGGGGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1501 recectivescoscorocrecrecrestrescorocretraterates de describes de la recenta de la
                                                                                    AGCAGTGCAACATGATTGAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCC
                                                                                                                                                                                                                                                                                                                                                     CCAATGGCTCTGTTTACCCACCCATGAAGGTTTCTGCCCGGGCCTTGAATCCGGCCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                            AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAGCCCCTACACCCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CQ868666 2496 bp DNA Sequence 78 from Patent WO2004074321. CQ868666 GI:51998641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1741
841
                                           841
                                                                                      901
                                                                                                                                  901
                                                                                                                                                                         961
                                                                                                                                                                                                                       961
                                                                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                                                                                                                                                                                                                                                                              1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
CQ86866
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               용
                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                      원
                                                                                    ઠે
                                                                                                                    g
                                                                                                                                                             8
                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGCCTCGGCTTCTGTCATCTCTCTGTGGCCTCTTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCTTCGAGGTGGTCGTCAATCCCAGGGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGCGGCGCCCAGGGGCGCGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTGAGCCCCGCGAGCCCGGGCCCCACCACGCGGACATGGGCGGCGCAGCGCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGGTGGCGGTGGGCCTGGGCGTCGTGGGGCTGCTGTGCTGTGCTCGGTGTGTTATGA
                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                         uses
                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                         and
                                                                                                                                                                                                                                                                                       Length 1825
                    Unclassified.
1 (bases 1 to 1825)
Actom, S.L. and Ordovas, J.M.
Human intronic and polymorphic SR-BI nucleic acids
                                                                                                                                                                                                                                                                                                                                                                              GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCT
                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                ;
0
                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                       四
                                                                                                                                                                                                                                                                                    Query Match
99.9%; Gcore 1786; I
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches
                                                                                                                           Patent: US 6228581-A 3 08-MAY-2001;
Location/Qualifiers
1 1825
/ Organism="unknown"
/mol_type="unassigned DNA"
                                                                                                             therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                             source
ORGANISM
                                         REFERENCE
AUTHORS
TITLE
                                                                                                                                JOURNAL
                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                              DRIGIN
```

Page 9

```
FTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFS
PBACKSMKLTYNESRVFBGIPTYRPTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTC
RFGAPLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPWNCSVKMQLSL
                                                                                                                                                                                                                                                                                                                                                                                                                                    YIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPLSTFYTQLVLMPQVLHYAQYVLLG
LGGLLLLVPIICQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQBAK
                                                                                                                                                                                                                                                                                                                                       LALVTMGQRAFMNRTVGET LWGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661 GIGCCITTATGAACCGAACAGTIGGIGAGAICCTGTGGGGGCTATGAGGATCCCTTCGTGA 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 638 AGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCACCATGGCCAGC 697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99 AGTCTCGGCTTCTGTCATCTCTGTGGCCTCCGTCACCTCTGTCTCCGT-CTCCTTCAGGT 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      458 GTGGACCCTATGTCTACAGGGGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAAGCCAGTAGTGCGGGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           518 ACACCGYGYCCTYCGYGGAGAACCGCAGCCYCCATTYCCAGCCTGACAAGTCGCATGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      578 cagadadroacracarroracroccraacarcrodrocrososocococororarroardo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                39 GCCACCTGCAGGCTACTGCTGCTGCCGCCAGGCACACACTTGCTGCTGAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 GGGTGGCGCTGGGCGTCGTGGGCCTGTGCCCTGTGCTCGGTGTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        398 retregageregreaaceaaacgagereereaacggecagaagecagragee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCACCTGCAGGGCTACTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTGAGCCCCGCGAGCCCCGGCCGCACACGCGGAATATGGGCGGCAGCGCCAGGGCGCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                          급
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1441.2; DB 9; Length 2512;
Pred. No. 1.5e-301;
0; Mismatches 208; Indels 1;
                                                                                                                                             receptor class B, member
                    /db_xref="GeneID:20778"
/db_xref="MGI:893578"
1937. .1722
                                                                                                                      codon_start=1
/product="scavenger
                                                                                             gene="Scarb1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          80.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 1577;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                      SCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                    I. (Dasses I to 2014).

Strausberg, R. L., Feingold, E. A., Grouse, L. H., Derge, J. G.,
Klausner, R. D., Collins, R. S., Wagner, L., Shenmen, C. M., Schuler, G. D.,
Klausner, R. D., Collins, R. S., Wagner, L., Shenmen, C. M., Schuler, G. D.,
Altschult, S. F., Zeeberg, B., Buetow, K. H., Schaefer (C. F., Bhat, N. K.,
Hopkins, R. R., Jordan, H., Moore, T., Max, S. I., Wang, J., Haieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G. M., Hong, L.,
Scheetz, T. E., Brownstein, M. J., Usdin, T. E., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S. S., Loquellano, N. A., Peters, G. J.,
Morkenan, K. J., Malek, J. A., Gunaratne, P. H., Richards, S. W.,
Worlley, K. C., Hale, S., Garcia, A. M., Gay, L. J., Hulyk, S. W.,
Villalon, D. K., Muzny, D. M., Sodergren, E. J., Lu, X., Gibbs, R. A.,
Sanchez, A., Whiting, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Youngh, A. C., Shevchenko, Y.,
Butterfield, Y. S., Krzywinski, M. I., Skalska, U., Smailus, D. E.,
Schnerch, A., Schein, J. E., Jones, S. J. and Marra, M. A.
Mammalian Gene Collection Program Team
Generation and initial analysis of more than 15,000 full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov Series: IRAK Plate: 9 Row: i Column: 5
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 14389422. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="Mammary tumor. C3(1)-Tag model. Infiltrating
ductal carcinoma. 5 month old virgin mouse."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /gene="Scarbl"
/note="synonyms: mSR-BI, CD36, SR-BI, Cla1, Cla-1, Cd36ll,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ë
                                                                                        Mus musculus
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Glires; Rodentia;
Sciurognathi; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NIH MGC Project
Direct Submission
Submitted (21-MAR-2001) National Institutes of Health, Mammalian
Submitted (21-MAR-1001) National Institutes of Health, Mammalian
Gene Collection (MGC), Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: http://mgc.ncl.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amg@bcm.tmc.edu
Gunazarne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, I
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G. B. Consortium (LINL)
DNA Sequencing by: Baylor College of Medicine Human Genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /db_xref="taxon:10090"
/clone="MGC:5988 IMAGE:3498018"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ductal carcinoma. 5 month o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lab_host="DH10B"
                                                                      musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mol_type="mRNA"
/strain="FVB/N"
               BC004656.1 GI:13435557
MGC.
Mus musculus (house mout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Center code: BCM-HGSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (bases 1 to 2512)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12477932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                    VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
PUBMED
REFERENCE
AUTHORS
CONSRIM
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONSRIM
                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                   AUTHORS
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
```

ò 원 8 ద

ò

요

셤

δ

유

ઠે

셤

ò

유

ò 셤 ò 셤 ò g ò 셤

ઠે

```
ABOU2151 2497 bp mRNA linear ROD 11-MAR-1999
Rattus norvegicus mRNA for scavenger receptor class B type I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RIDESSLSFGMWER PVPFYLSVY FFEVVNBSEVLNGCKPVYRERGPYVYREFROKVN
ITFNDNDTVSYIENRSLRFQPDRSQGSESDYIVLPNILVLGGAVMMEDKFTSLKLLMT
LGLVTMGQRAFMNRTVGEILMGYEDPFVNFLSKYFPDMFPIKGKFGLFVGMNDSSSGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PEACRSMICLTYQESRVFEGIPTYRFTAPDTLFANGSVYPPNGGFCPCRESGIQNVSTC
REAPLFLEGOPHFYNADPULSEAVLGIANDPNKEISFLDITHPYTGIPWNGSVKMQLSL
YIKSVKGVGQTGKIEPVYLPLIMFEDSGMAGGKTLINFFYTQLVLMPQVLHYDYVTLL
LGGLLLLIVPIIYQLRSQEKCPLFWSGSKKGSQDKEAMQAYSESLMSPAAKGTVLOBAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein id="BAA74541.1"
/db_xref="GI:4210542"
/translation="MGVSSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQQVLKNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FTVFTGVQNFSKIHLVDKWNGLSEVNYWHSEQCNMINGTAGQMWAPFMTPESSLEFFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shirateuchi, A., Kawasaki, Y., Ikemoto, M., Arai, H. and Nakanishi, Y. Role of class B scavenger receptor type I in phagocytosis of apoptotic rat spermatogenic cells by sertoli cells J. Biol. Chem. 274, 5888-5894 (1999)

2 (bases I to 2497)
Nakanishi, Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Direct Submission
Submitted (26-MAR-1997) Yoshinobu Nakanishi, Kanazawa University,
Saculty of Pharmaceutical Sciences; 13-1 Takara-machi, Kanazawa,
Ishikawa 920-0934, Japan (E-mail:nakanaka@dbs.p.kanazawa-u.ac.jp,
Tel:076-234-4424, Faz.076-234-4480)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     59 GCCACCTGCAGGGCTACTGCTGTCTGGCCACTGTCAGGCACACACCTTGCTG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ---CTCGGTTTCTGTCATCTCTGTGGCCTCCGTCGCCTCTGTCGCCGT-CCCCTTCAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTIGAGCCCAGCGACTCTCGGCCGCGCACGCGACATGGCGTCAGCTCCAGGCACGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 2497;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /codon_start=1
/product="scavenger_receptor_class B type I"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /sex="male"
/cell_type="sertoli cell"
/tissue_type="testis"
/clone_lib="cDNA library"
/dev_stage="20 days after birth"
/note="SR-BI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79.0%; Score 1413; DB 9;
87.9%; Pred. No. 1.9e-295;
iive 0; Mismatches 205;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Rattus norvegicus"
/mol_type="mRNA"
/strain="DONRYU"
                                                                                                                                                                                                                                                                                        AB002151.1 GI:4210541
scavenger receptor class B type I.
Rattus norvegicus (Norway rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'db_xref="taxon:10116"
'clone="prSRB1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 87.9
Matches 1567; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (sites)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 168
                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                         RESULT 10
AB002151
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1058 AATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGATACTCTGTTTG 1117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1178 AGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTTCTCTCCCACCCCCACTTTTACA 1237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGATGC 1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1381 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGCGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGTTCTACACGCAGCTGGTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGCTGGCCGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1538 rideidectricia de descricitar de contración de contra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATGCTTTTTATTTTGAGTGGTAGTAAAAAGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1658 CCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCCACGGTGCTGCAAGAAGCCAAGC 1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1718 TATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCAC 1777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1598 AATGCTTTTTGTTTTGGAGTGGTAGTAAAAGGGCTCCCAGGATAAGGAGGCCATTCAGG 1657
                                                                             780
                                                                                                                                                817
                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC 960
GIGCTITIATGAACCGCACAGTIGGIGAGAICCIGIGGGGCIAIGACGAICCCITCGIGC 757
                                                                                                                                                                                                                                                                                            877
                                                                                                                                                                                                                                                                                                                                                                                                                                     937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              997
                                                                                                              ATTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTTTG
                                                                                                                                                                                                                                                       TIGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCGAGAATTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  998 AAICCICGCIGGAAIICTICAGCCCGGAGGCAIGCAGGICCAIGAAGCIGAACCIACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1118 CCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCCGAGGGTCTGGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1238 ACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCTGAGCCTCTACATCAAATCTGTCAAGGCATCGGGCAAACAGGGAAGATCGAGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1418 TAGTICTGCCGTIGCTGTGGTTCGAACAGAGGGGAAGAAATGGGTGGCAAGCCCCTGAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                       GCAAGATCCACCTGGTGGACAGATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                  GCAGGATCCATCTGGTGGACAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                938 AGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCTTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCAAGAAGCCAAGC
                                                                         ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                            758
                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                     818
                                                                                                                                                                                                                                                                                                                                                           841
                                                                                                                                                                                                                                                                                                                                                                                                                              878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             961
```

167 180 227

111

셤

g ò

ઠે

셤

8

쉽

ò

엄

ð

원

ઠે

6 6 6 6

8 4 8 4 8 4 8 4 8

	RESULT 11 D89655 LOCAL D89655 LOCAL D89655 LOCAL D89655 LOCAL D89655 LOCAL D89655 LOCAL RATURE ACCESSION D89655.1 GI:1752796 SCACERSTON RETURN FATURE SCACERSTON RATURE ORGANISM RATURE AUTHORS REFERENCE AUTHORS MIYAMOCLO, K., MIXALANI, T. and Numata, Y. TITLE JOURNAL DRADIBLE SCHOOL CLASS B AUTHORS MIYAMOCLO, K., MIXALANI, T. and Numata, Y. TITLE JOURNAL JOURNAL DRADIBLE REFERENCE AUTHORS MIYAMOCLO, K., MIXALANI, T. and Numata, Y. TITLE JOURNAL JOURNAL JOURNAL JOURNAL JOURNAL SCHOOL DEC-1996) KAORU MIYAMOCLO, INSTITUTE for molecular and cellular regulation, gumma univ. Biosignal research center; Schouwa-machi, 3-19-15, Maebashi, Gunma, 371, Japan (E-mail: Kmiyamocoffmersa Likui- med.ac.jp, Tel:81-272-20-8878) FEATURES  1. 2392 SOURCE JOURNAL JOURNAL JOURNAL SCHOUL SUPPRISE RATIONAL SCHOOL SUPPRISE FEATURES  1. 2392 SOURCE JOURNAL JOURN	/tissue_trace="ovary" /dev_stage="21 days old" 1211650 /codon_start=1 /product="scavenger receptor class B"
181   GGGTGGCGGTGGGCGCTGCTGGCGCTGTGCCCTGTGCCCTGTATAGA   240   228   GGGTGGCCTGGTGGCTTATCATCA   241   228   GGGTGGCCTGGGGCTGCTGCCCTGGCGTTATCATCA   287   288   287   28	ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGCCCTGTTTG	1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260

셤

셤

ò

셤

ò 셤 ò g 8

ઠે

8

ò

용

ઠે

셤

ò

g Š g

à

셤

ð

g

8

979

954

1374

1434 1399 1459

1494

1519

1579

us-08-765-108-3.rge

```
2408 bp mRNA linear ROD 07-JUL-2004 Rattus norvegicus scavenger receptor class B, member 1, mRNA (cDNA clone MGC:91637 IMAGE:7099863), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus norvegicus
Rattus norvegicus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
                                                                                                                                                                                                                                  1040 TGTTTGCCAACGGGTCCGTCTACCCAATGAAGGCTTCTGCCCGTGCCGCGAGTCCG
                                                                                                                                                                                                                                                                                                         GCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCTGTTTCTCTCCCCAGCCCCACT
                                                                                                                                                                                                                                                                                                                                                                               1580 TGCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTACTGCAAGAGAG
                                                                                           920 CACCCGAATCCTCACTGGAATTCTTCAGCCCAGAAGCCTGCAGATCTATGAAGCTCACCT
                                                                                                                                                             ACCAGGAATCAAGGGTGTTCGAAGGCATCCCCACTTATCGCTTCACGGCCCCCGATACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCATTCCTTGTTCCTAGACATCCACCGGTCACTGGGATCCCCATGAACTGTTCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGATGCTGAGTCTGTACATCCATCCATCAAGGGCGTCGGGAAACAGGGAAAGATCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1460 TGCTGCTGGGGGCTTGGGCCTCCTGCTTCTGGTGCCCATTTACCAACTGCGCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1520 AGGAGAAATGCTTTTTTTTTTTGGAGTGGTACTAAAAAGGGCTCGCAGGATAAGGAGGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1640 CCAAGCTGTAGGGCCCAGAAGAACACCACGAGCCCCCCAAACCTGATAGCTTGGTCAGACC
                                                                                                                                           ACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGGCCCCTAAAACTT
                                                                                                                                                                                                                TGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCG
                                                                                                                                                                                                                                                                                      GCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACT
                                                                                                                                                                                                                                                                                                                                                           TCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCATTCTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1340 AGCCAGTAGTCCTGCCATTGCTGTGGTTCGAACAGAGGGGGATGATGGGTGGCAAGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1435 TGAACACGTTCTACACGCAGCTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATG
                                   860 ATTCGGAACAGTGCAACATGATCAATGGTACTGCCGGGCCAGATGTGGGCACCATTCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCCCGTGGTCCTCCCATTGCTGTTTGAGCAGAGCGGTGCCATGGGCGCGCGAGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1400 rdaacacerricracacecaecreerecrearececeaeerricricacracececeaerare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1615 TTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCAAGCTGTAGGGTCCCAAAGACACCCCGGAGCCCCCCAACCTGATAGCTTGGTCAGACC
                                                                      CACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCTGCTGGGGCTGGCGGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1555 AGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCGCCCAGTCCCTACACCCCACTTCTCGAGGACTCTCTCAGCGGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GI:49904284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BC076504
BC076504.1
MGC.
                                                                    955
                                                                                                                                         1015
                                                                                                                                                                            980
                                                                                                                                                                                                                                                                                                                        1100
                                                                                                                                                                                                                                                                                                                                                           1195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1280
                                                                                                                                                                                                                1075
                                                                                                                                                                                                                                                                                      1135
                                                                                                                                                                                                                                                                                                                                                                                                                                   1255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1700
895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
BC076504
LOCUS
DEFINITION
                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                           g
 8 8
                                                                                              셤
                                                                                                                                         ઠે
                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                           .∂
                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
/translation="MGVSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQQVLKNV
RIDPSGLSFGMWKEI PVPFYLGVYFPEVVNPSBYLNGQKPVVRERGPYVYREFRQKNV
RIDPSGLSFGMWKEI PVPFYLGVYFPEVVNPSBYLNGQKPVVRERGFYVYREFRQKNV
ITFNDNDTVSYIENRSLRFQPDRSQGSESDYIVLPNILVLGGAVMMEDKPTSLKLLMT
LGLVTMQQARFMNRTVGBILMGYEDPFVWFLSKYFPDMFPIKKGFGLFVGMNDSSGGV
FTVFTGVQNPSRTHLVDKMNGLSBVNYMHSEQCNMINGTAGQMMAPFTPFSSLEFFS
PRACRSWKLTYQGSRFWEGIPTYRFTAPDTLFNAGSVYPPNEGFCPCRESGIQNVST
RFGAPLFLSQDHFYNADPVLSBAVLGLNPDPKEHSLFLDIHVYGIPMCSVKMQLSL
YIKSVKGVGQTGKIRPVVLPLMFRQSGMMGGKTLNTFYTQLYLMPQYTHYAQYVLLG
LGGLLLLVPIIYQLRSQBKCFLFWSGSKKGSQDKEAMQAYSESLMSFPAAKGTVLQEAK
L"
                                                                                                                                                                                                                                                                                                       114
                                                                                                                                                                                                                                                                                                                                                                            174
                                                                                                                                                                                                                                                                                                                                                                                                                 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               319
                                                                                                                                                                                                                                                                                                                                                                                                                                                    234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   859
                                                                                                                                                                                                                                                                                                                                        79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCCCAGCAGCCTGTCCTTTGGGATGTGGAAGAGAGAGATCCCTGTTCCCTTCTACTTGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCTTGCTGCTCGGTTTCTGTCATCTCTGTGGCCTCCGTCGCCTCTGTCGCCGT-CCCCT
                                                                                                                                                                                                                                                                                                                                                                          TCAGTCCCTGAGCCCCGCGAGCCCGCACACGCGGACATGGGCGGCAGCGCCAGGG
                                                                                                                                                                                                                                                                                                                                                                                              cacactaggaragagaragagacaragagactagagaragaragaragaraga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCATGATTCTCATGGTGCCCTCGCTCATCAAGCAGCAGGAGGTGCTCAAGAATGTCCGCATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACTTCAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            800 ATTICAGCAAGATCCATCTGGTGGAAAGTGGAACGGCCTCAGCGAGGTCAACTATTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCTACTTCTTCGAGGTGGTCAATCCCCAGCGAGATCCTAAAAGGGTGAAAGCCCAGTAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTTCGTTGGGATGAACGACTCGAGTTCTGGCGTCTTCACCGTCTTCACAGGTGTCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCCAGCGGCCTTTATGAACCGCACGGTTGGTGAGATCCTGTGGGGCTACGAAGATCCCT
                                                                                                                                                                                                                                9; Length 2392;
                                                                                                                                                                                                                                                                    ä
                                                                                                                                                                                                                             Score 1390.6; DB 9; Length
Pred. No. 1.4e-290;
0; Mismatches 204; Indels
                                                                                                                                                                                                                             77.8%;
larity 88.1%;
Conservative
                                                                                                                                                                                                                                                                                                   AACGTGAGCCTCGGCT
                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 1524; Conserv
                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             740
                                                                                                                                                                                                                                                                                                                                                                            115
                                                                                                                                                                                                                                                                                                                                                                                                                                                  175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                835
                                                                                                                                                                                           DRIGIN
```

```
/ LEADS LE LONG TO THE TOTAL 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    115 TCAGTCCCTGAGCCCCGCGAGCCCGGCCCCACACGCGGACATGGGCGGCAGCGCCAGGG 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            311 rcractrictricas de regionas consecas de recranas resocias de regionas de r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    671 rigigaaririccicagcaararricccagacargriccccarcaaaggcaaarriggcc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           175 CGCGCTGGGTGGCGGTGGGGCTCGTCGTGGGGCTGCTGTGCGCTGTGCTCGGTGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             191 TCATGATTCTCATGGTGCCCTCGCTCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  251 Accecadedagecrerecririgaargregaagarecergricecririratrefee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           415 GGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACTTCAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          655 GCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12 Accridencereciestricisterererereresecrecereseresecer-ecer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      355 TCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               475 ACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   595 TGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        611 eccaecesecerriareaaceecaceerreereaarecrerereesecraceaasarecer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGCCAAGTTCGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               55 AACGIGAGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                         /product="CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1"
/protein_id="AAH76504.1"
/db_xref="G1:49904285"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 9; Length 2408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 77.8%; Score 1390.6; DB 9; Length Best Local Similarity 88.1%; Pred. No. 1.4e-290; Matches 1524; Conservative 0; Mismatches 204; Indels
                                                                                                                                                                                                                                                                                                                                           |db_xref="GeneID:25073"
|db_xref="RATMAP:36635"
|db_xref="RGD:2302"
     112. .1641
/gene="Scarb1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            715
     CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                        Straubberg, R.L., Feingold, E.A., Grouse, D.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Schetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Rah, S.S., Loquellano, N.A., Peters, G.J.,
Morley, K.C., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, B., Ketteman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Schmutz, J., Myers, R.M.,
Generation and initial analysis of more than 15,000 full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: nisc_mgc@nhgil.nih.gov
Akhter.N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
Blakesley,R.W., Bouffard,GG., Breen,K., Brinkley,C., Brooks,S.,
Blakesley,N.W., Granite,S., Guan,X., Gupa,J., Haghighi,P.,
Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
Maduro,Q.L., Masiello,C., Maskeri,B., Mastrian,S.D.,McCloskey,J.C.,
McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
Young,A., Zhang,L.-H. and Green,E.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 175 Row: £ Column: 9
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 13928729.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (06-UUL-2004) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: MGC help desk
Email: cgapbe-r@mail.nih.gov
Tissue Procurement: Howard Jacobs
CDNA Library Preparation: Express Genomics
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
GaitherBourg, Maryland;
Web site: http://www.nisc.nih.gov/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
Mammalia; Butheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="Lung, rat (Brown Norway)"
/clone_lib="NIH_MGC_231"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /gene="Scarbl"
/note="gynonyms: Srb1, SR-B1, Cd3611"
/db_xref="GeneID:25073"
/db_xref="RATMAR:36635"
/db_xref="RGD:2302"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NIH-MGC Project URL: http://mgc.nci.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone="MGC:91637 IMAGE:7099863"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Rattus norvegicus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'note="Vector: pExpressl"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/db_xref="taxon:10116"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                human and mouse cDNA sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /lab host="DH10<u>B</u>"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (bases 1 to 2408)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .2408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12477932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
```

REMARK COMMENT

TITLE

FEATURES

```
PEACRSMKLTYQESRVFEGIPTYRFTAPDTLPANGSVYPPNEGFCPCRESGIQNVSTC
RFGAPLFLEQOHFYNADPVLSEAVLGLNPDPKEHSLFLDIHPYTGIPNNCSVKNQLSL
XIKSVKGVGQTGKIEPVVLPLLWFEQSGMMGGKTLNTFYTQLVLMPQVLHYAQVVLLG
LGGLLLLVPIIYQLSQEKCFLFWSGSKKGSQDKEANGAYSESLMSPAAKGTVLQEAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    translation="MGVSSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQOVLKNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPSEVLNGQKPVVRERGPYVIREFRQKVN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :TFNDNDTVPYIENRSLRFQPDRSQGSESDYIVLPNILVLGGAVMMEDKPTSLKLLMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LGLVTMGQRAFMNRTVGEILWGYEDPFVNFLSKYPPGMFPIKGKFGLFVGMNDSSSGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FTVFTGVQNFSKIHLVDKWNGLSEVNYWHSEQCNMINGTAGQMWAPFMTPESSLEFFS
                                                                                                                                                                                                                                              high-density lipoprotein type I messenger
                                                                                                                                                                                                                                                                                                                                                                                         Sterol regulatory element-binding protein-la binds to cis elements in the promoter of the rat high density lipoprotein receptor SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          regions
Rattus norvegicus scavenger receptor class B type 1 (Scarbl) mRNA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unction="HDL receptor responsible for facilitating the
                                                                                                                                           Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cla1, CD36; integral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      55 AACGIGAGCCTCGGCTTCTGTCATCTGTGGGCCTCTGTGGCTTCTGTCGCTGTCCCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 ACCITGCTGCTCGGTTTCTGTCATCTCTGTGGCCTCCGTCGCCTCTGTCGCCGT-CCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of South Florida,
USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            flux of free and esterified cholesterol between lipoproteins and the cell surface" | Intoprotein receptor; SR-B1, cla1, CD36; in membrane protein localized in caveolae-containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1,
                                                                                                                                     Extracyota; Metazoa; Chordata; Craniata; Vertebrata; Eute Mammalia; Eutheria; Buarchontoglires; Glires; Rodentia; Sciurognath; Muroidea; Muridae; Murinae; Rattus.

1. (Dases 1 to 2401)
McLean,M.P. and Sandhoff,T.W.
Expression and hormonal regulation of the high-density [HDL) receptor scavenger receptor class B type I messen; ribonucleic acid in the rat ovary
Endocrine 9 (3), 243-252 (1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 2401;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    product="scavenger receptor class B type 1"
protein_id="AAR18387.1"
db_xref="GI:38350549"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'type="Steroidogenic tissues"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Columbia Drive, Room 529, Tampa, FL 33610,
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 1381; DB 9;
Pred. No. 1.6e-288;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches 210;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. .2401
/organism="Rattus norvegicus"
/mol type="mRNA"
/strain="Sprague-Dawley"
/db xref="taxon:10116"
/chromosome="12"
                                                                                                                                                                                                                                                                                                                                                                                                                                        Endócrinology 140 (12), 5669-5681 (1999)
10579331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 (bases 1 to 2401)
McLean,M.P., Sandhoff,T.W. and Lopez,D.
Incet Submission
Submitted (28-OCT-2003) OB/GYN, Univers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of the plasma membrane"
                                                                                                  Rattus norvegicus (Norway rat)
Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  map="12q15-q16"
                                                                                                                                                                                                                                                                                                                                                                        Lopez, D. and McLean, M.P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .08. .1637
gene="Scarb1"
                                                         AY451993.1 GI:38350548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene="Scarb1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     77.2%;
87.8%;
                                                                                                                                                                                                                                                                                                                                                     (bases 1 to 2401)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tissue,
                   complete cds.
AY451993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                               10221589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Sim:
Matches 1518;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                  SOURCE
ORGANISM
DEFINITION
                                    ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                          AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1510
                                                                                                                                                                                                                                                                   1014
                                                                                                                                                                                                                                                                                                                                                  1074
                                                                                                                                                                                                                                                                                                                                                                                         1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1271 AGATGCAGCTGAGTCTGTACATCAAATCCGTCAAGGGCGTCGGGCAAACAGGGAAGATCG 1330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1391 TGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATG 1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGAAATGCTTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGCCA 1614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1571 TGCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTACTGCAAGAAG 1630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1675 CCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACC 1734
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1690
                                                                                                                                                                                                                                                                                                                                                                                                                                1075 TGTTTGCCAATGGGTCTGTTTACCCAACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCG 1134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGG 1254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGA 1314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1615 TTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAG 1674
                                                                                                                                         850
                                                                                                                                                                                                                          910
                                                                                                                                                                                                                                                                                                          970
                   834
                                                         790
                                                                                                  894
                                                                                                                                                                                    954
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTACAATGCTGACCCCGTGCTGTCAGAAGCTGTTCTTGGTCTGAACCCCTGACCCAAAGG
                                                         731 TGTTCGTTGGGATGAACGACTCGAGTTCTGGCGTCTTCACCGTCTTCACAGGTGTCCAGA
                                                                                                                                                                                                                        ATTCGGAACAGTGCAACATGATCAATGCTACTGCCGGCAGATGTGGGCACCATTCATGA
                                                                                                                                                                                                                                                                                           ACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTT
                                                                                                                                                                                                                                                                                                                                                                            ACCAGGAATCAAGGGTTCGAAGGCATCCCCACTTATCGCTTCACGGCCCCCGATACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1091 GCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCCTGTTTCTCTCCCAGCCCCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCATTCCTTGTTCCTAGACATCCACCCGGTCACTGGATCCCCATGAACTGTTCCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGTTGCAGATAAGCCTCTACATCAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCCCGTGGTCCTCCCATTGCTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGCTGCTGGGGGCTGGGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1451 TGCTGCTGGGGCTTGGAGGCCTCCTGCTTCTGGTGCCCATCATTTACCAACTGCGCAGCC
                     CACGGGCGTCCAGA
                                                                                                                                       ATTICAGCAAGAICCATCIGGIGGAIAAGIGGAACGCCTCAGCGAGGICAACIATIGGC
                                                                                                                                                                                                                                                                   CACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1631 CCAAGCTGTAGGGCCCCAGAAGACACCACGAGCCCCCCAAACCTGATAGCTTGGTCAGACC
                                                                                                                                                                               ATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGA
                                                                                                  ACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCCGCCCAGTCCCTACACCCCACTTCTCGAGGACTCTCTCAGCGGACA 1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTGAGCGGACA 1783
                   TGTTTGTTGAGATGAACAACTCAGACTCT
                                                                                                835
                                                                                                                                       791
                                                                                                                                                                               895
                                                                                                                                                                                                                        851
                                                                                                                                                                                                                                                                 955
                                                                                                                                                                                                                                                                                                                                                1015
                                                                                                                                                                                                                                                                                                                                                                                         971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1691
                 775
                                                                                                                                                                                                                                                                                                          911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
AY451993
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                     a
                                                                                                                                     셤
                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                ð
                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

115 TCAGTCCCTGAGCCCCGGGGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGG 174

ò

ROD 22-NOV-2003

linear

mRNA

2401 bp

AY451993

8 8 8

0	GGCCATTCAGGCCTACTCTGAGTCTCCCAGCTGCCAGGGCACGGTGCTGCA GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAGGGCACGGTGCTGCA GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCCCTGCCAGGGCACGGTGCTGCA AGAAGCCAAGCTATAGGGTCCCTAAAAACACCACGAGCCCCCCAACCTGATAGCTTGGTC AGAAGCCAAGCTATAGGGTCCTGAAAAACACTATAGAGCCCCCAAACCTGATAGCTTGGTC AGACCAGCCATCCAGACCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 178	RESULT 15 AR195310 LOCUS DEFINITION Sequence 7 from patent US 6350859. ACCESSION AR195310 VERSION AR195310 GI:20244747 KEYWORDS SOUNCE Unknown. ORGANISM Unknown. ORGANISM TITLE Class B1 to 1785) AUTHORS Krieger,M., Acton,S.L. and Rigotti,A. TITLE Class B1 and C1 scavenger receptors JOURNAL Patent: US 6350859-A 7 26-FEB-2002; FEATURES SOURCE (Location)(Qualifiers JOURNAL Location)(Qualifiers SOURCE (Location)(Qualifiers FEATURES    1.1785	Query Match         76.6%; Score 1369.8; DB 6; Length 1785;           Best Local Similarity 88.6%; Pred. No. 4.4e-286;         0; Mismatches 192; Indels 0; Gaps 0;           Qy         110 CCCCTTCAGTCCTGAGCCCGCAGCCCGCACACGCGCACATGGGCGCACACGCGCACACGCGCACACGCCGCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCACACGCCCCCC
125   CGTTGTCATGATGCTCCCTCCTCATCAAGAGTGCTCAAGAATGTCCG	CAATGACAACGACCTGTGCTGGAGAACCGCAGCCTCCATTCCAGCCTGACAA 424 GTCCCACGGCTCTGAGAAGTGACTACATTATACTGCCTAACATTTCCAGCCTGACAA 424 GTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCCTGGGGGGCGC 589 GTCGCATGGATGATGATGATGTACTGCCTAACATTTGGTCCTGGGGCTGCCTC 484 AGTAATGATGAAGGAAGTCTGCAGGCCTGAAGCTGATGATGATGATGACGCTGGGCTGCCAC 649	TCCCTTCGTGAATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT 769	CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGGCCCCCTAA 1069

8 6 8 6 8 6 8 6

8 & 8 &

\$ 8 \$ 8 \$

305 305 365 365 530 530 530		
, 80 R 4 H O I	GATATTGATGAGGGAAGCCTGTGAAGCTGATGATGATGATGACGTGGTGCTGTGGGGCTGGTCCC 54  CTTGGGCCAGCGTGCCTTTATGAACCGAACGTTGATGATGACCTTGGCGCTGGTCCC 54  CTTGGGCCAGCGTGCTTTATGAACCGACAGTTGGTGAGATCCTGTGGGGCTATGAGGA 70  CATGGGCCAGCGTGCTTTATATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA 60  TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATTCCCCATCAAGGGCAAGTT 76  TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATCCCATCCAGGGCAAGTT 76  TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATCCCATCCAT	
	CGGCCTGTTTGTTGAGATGAACACTCAGGCTCTTCACTGTCTTCACGGGCGT 829  [	
950 845 1010 905 1070 965		
1025 1190 1085 1250 1145 1310	GTCTGGCATTCAGAATGCAGCACCTGCAGGTTTGGTGCCTCTGTTTCTCTCTC	
1370 1265 1430 1325	GATCGAGCCCGTGGTCCTCCCATTGCTGTGTTTTGAGCAGAGCGGTGCCATGGGCGGCGG 14.	,

6 6 6 6 6 6

8 6 6 6

8 8 8

8 6 6 6 6 6

8 4 8 4 8 4 8 4

1490 GTATGTGCTGCTGGGGGCTGGGGGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCG 1549	GTATGTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGCCCATCATGTCGCCAACTGCC	CAGCCAGGAGAAATGCTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGA 1609	CAGCCAGGAGAAATGCTTTTTTTTTTTTTTTTTTTTTTT	GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669	1505 GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564	1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGGTC 1729	AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACCTGATAGCTTGGTC 1624	1730 AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786	AGACCAGCCACCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1681	
1490	1385	1550	1445	1610	1505	1670	1565	1730	1625	
ò	අධ	ò	අධ	ò	q	ò	đ	È	qa	

Search completed: February 23, 2006, 22:46:12 Job time : 9019.06 secs

```
Class BI and CI scavenger receptor proteins - used to develop products for treating or preventing atherosclerosis, fat uptake by adipocyte(s) and immune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 14; Page 56-57; 84pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                     AAT10116;
                                                                                                                                                                                                                                                                                                                                                                      RESULT 1
                                                                                                                                                                                                                                                                                                                                                                                 AAT10116
                                                                                                                                                                                                                                                                                                                                                                                                                      Abs33744 CDNA enco
Ad33315 Hamster s
Ad45234 Hamster S
Ac44926 Human cDN
Ad146120 Human var
Abd33431 Murine ca
Adr67032 Mouse can
Ad213454 Murine ca
Ad58666 Toxicty-
Ad53664 Frimary r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Adb53264 Primary r
Abt42207 Toxicity
Adv41414 Rat cardi
Aax23404 Mouse sca
Aax30616 Mouse Sca
Abi99330 Mouse isc
                                                                   February 23, 2006, 17:34:57 ; Search time 1079.41 Seconds (without alignments) 11039.845 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Aat10116 Hamster s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aax23403 Hamster
Aaz30615 Hamster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                           1 GCCACCTGCAGGGCTACTGC......CTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                  9993994
                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                        4996997 seqs, 3332346308 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                            OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADB58616
ADB53264
ABT42207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAX23404
AAZ30616
ABI99330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT10116
                                                                                                                                                                   IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   geneseqn2003ds:
                                                                                                                                                                                                                                                                                                                                                                                                         geneseqn2001bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                     geneseqn2002as:
                                                                                                                                                                                                                                                                                                                                                                                                                                  geneseqn2002bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                             geneseqn2003as:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          geneseqn2003bs:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         geneseqn2004bs:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    genesegn2005s:*
                                                                                                                                                                                                                                                                                                                                                                                               geneseqn2001as:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     geneseqn2003cs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             geneseqn2004as
                                                                                                                                                                                                                                                                                                                                                        geneseqn1980s:*
                                                                                                                                                                                                                                                                                                                                                                                 geneseqn2000s:*
                                                                                                                                                                                                                                                       Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query
Match Length DB
                                                                                                                    US-08-765-108-3
1788
                                                                                                                                                                                                                                                                                                                                           N_Geneseq_21:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0
100.0
100.0
100.0
99.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1413
1413
1369.8
1369.8
                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   788
                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1441.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1441.
                                                                                                                                              Sequence:
                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                              Database
                                                                    Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Result
No.
```

Aad33917 Murine sc	Adj53336 Murine SR	Aeb03942 Murine Sc	Aeb03937 Hamster S	Ads73684 Rat SRB-I	Aea33429 SR-BI CDN	Abl46318 Mouse sca	Adz13452 Murine ca	Aeb03939 Murine Sc	Adz13457 Human can	Adz13463 Human can	Acd44925 Human cDN	Adj46118 Human cDN	Aba09256 Human SR-	Aaz32194 Human CLA	Aaa40750 Wild type	Aa162623 Human CD3	Adl61166 Human tyr	Adz13465 Human can	Abd33433 Human can	Adr67035 Human can	Ade40209 Human NOV	Aax24497 Human SR-	Aax24589 Human SR-	Ade09617 Novel DNA	Adz13461 Human can	
AAD33917	ADJ53336	AEB03942	AEB03937	ADS73684	AEA33429	ABL46318	ADZ13452	AEB03939	ADZ13457	ADZ13463	ACD44925	ADJ46118	ABA09256	AAZ32194	AAA40750	AAL62623	ADL61166	ADZ13465	ABD33433	ADR67035	ADE40209	AAX24497	AAX24589	ADE09617	ADZ13461	
ø	12	14	14	13	14	y	14	14	14	14	φ	12	4	~	ო	σ	12	14	13	13	10	~	~	10	14	
1785	1785	1785	1718	1531	1546	1607	2382	1761	2637	3116	2630	2630	2558	2565	2566	2566	2566	3143	3144	3144	2628	2630	2630	2604	3185	
9.94	9.94	76.1	76.0	70.2	69.8	9.69	69.0	67.2	64.5	64.5	63.7	63.7	63.6	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.2	63.2	63.2	62.7	59.6	
1369.8	1369.8	1359.8	1358	1255.8	1247.8	1243.8	1233	1201.8	1153.4	1153.4	1139.4	1139.4	1137.8	1136.2	1136.2	1136.2	1136.2	1135.4	1135.4	1135.4	1129.8	1129.8	1129.8	1120.4	1066	
20	21	22	23	24	25	56	27	28	53	30	31	32	33	34	35	36	37	38	33	40	41	42	43	44	45	
													ပ											ပ		

## ALIGNMENTS

```
Scavenger receptor class BI; HaSR-BI; low density lipoprotein; atherosclerosis; CHO; Chinese hamster ovary; lipoprotein receptor;
                                                                                                                                                                                                                                                                                                Location/Qualifiers
165. 1685
1*tag=
/*tag=
/product= "scavenger receptor class B-I"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rigotti A;
                                                                                                                              Hamster scavenger receptor class B-I cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pearson AM,
AAT10116 standard; cDNA; 1788 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             95WO-US007721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       94US-00265428
                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Krieger M, Acton SL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4PI; 1996-068872/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PSDB; AAR88465.
                                                                                                                                                                                                                cholesterol; ds
                                                                                                                                                                                                                                                        Cricetulus sp.
                                                                                                                                                                                                                                                                                                                                                                                                          WO9600288-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9-JUN-1995;
                                                                                    29-MAR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-JAN-1996.
```

```
17-JUN-1999
                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                   1381
            841
                                                                               961
                                                                                                                          1021
                                                                                                                                                1021
                                                                                                                                                                     1081
                                                                                                                                                                                           1081
                                                                                                                                                                                                                 1141
                                                                                                                                                                                                                                     1141
                                                                                                                                                                                                                                                            1201
                                                                                                                                                                                                                                                                                  1201
                                                                                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                                                                            1261
                                                                                                                                                                                                                                                                                                                                                   1321
                                                                                                                                                                                                                                                                                                                                                                                                1381
                                                                                                                                                                                                                                                                                                                                                                                                                                           1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1681
                                  901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX23403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAX23403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 x 2 x 2 x 2 x 3
                                                                                                                                                                                                                                                                                                                                                                                                               셤
            셤
                                ò
                                                    셤
                                                                            ò
                                                                                                셤
                                                                                                                         ઠે
                                                                                                                                             셤
                                                                                                                                                                 Š
                                                                                                                                                                                      g
                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
        receptor, hask-BI (AAR88465), that selectively binds to low density lipoprotein (LDL) and to acetylated LDL. It was isolated using a CDNA expression library prepd. from CHO line Var-261 mRNA that was transfected into COS cells, with subsequent visible screening for endocytosis of fluorescent acetylated LDL. The isolated CDNA can be used as a probe to screen libraries for the presence of related receptors, to screen patient samples, and to screen for drugs that modulate receptor activity and/or
                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG 900
                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                               61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                         GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT 360
                                                                                                                                                                                9
                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGGACCCTATGTCTACAGGGAATTCAGACATAAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            creacadreactacarraracreccraacarreregrerrregegegegegaraargare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                    GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                             TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACTGTGTCTTTGTGGAGCACCGCAGCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                               GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                         AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                              TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATACTGTGTCCTTTGTGGAGCACCCCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                      CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCCT
                                                                                                                                                                                                                                                                                                                   clone (AAT10116) codes for a new hamster class B-I scavenger
                                                                                                                                                         ;
                                                                                                                                    Length 1788;
                                                                                                             Sequence 1788 BP; 370 A; 511 C; 487 G; 420 T; 0 U; 0 Other;
                                                                                                                                                         Indels
                                                                                                                                   DB 2;
                                                                                                                                                         ô
                                                                                                                                  ; Score 1788; I
; Pred. No. 0;
0; Mismatches
                                                                                                                                  Query Match
Best Local Similarity 100.0%;
Matches 1788; Conservative 0
                                                                                        expression
                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                    н
                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     781
88888888888888
                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원 <u>장</u>
                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                          Š
```

1020 1140 1200 1260 1440 1440 1560 1740 1320 1320 1380 900 GCAAGATCCACCTGGTGGACAGATGGAATGGCTCAGCAAGGTCAACTACTGGCATTCAG AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC 961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCATG 1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAAGATCGAGCCCG AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC TGGTCCTCCCATTGCTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1501 TGGGGCTGGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCAGAGA CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCAAGAAGCCAAGC CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC AATGCTTTTTTATTTTGGAGTGGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCAAGAAGCCAAGC TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1681 TGTAGGGTCCCAAAGACACCACGGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT **AAAA**TGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA AAAATGTCAGCACTTGCGGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGGACATT Arecagacecretereradaagecerreregerereaacecreaeceaageagearr CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGCGGTGCCATGGGCGGCGGCGAGCCCCTGAACA CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGAAA 1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 
1741 CCAGCCCCTACACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC Hamster scavenger receptor class B-I DNA 1788 DNA; standard;

```
TGGTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGAGGCCCCTGAACA 1440
                                                                                                                                                                                                                                                     GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                              721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCAAGATCCACCTGGTGGACAGATGGATTGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841 GCAAGATCCACCTGGTGGACAGATGGGATTGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                      Gradaccerargreracaedaarreacaearaaaedeceaaearerearearea
                                                                                                                        481 ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCT
                                                                                                                                                               CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                              creacadreacracarracaccraacarrerescraceses
                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1081 ccaargegrergrinacceaeceaargaaggrinergeecergeerreaareegearre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGGAAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                  AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                        GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                   601
                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                           721
                                                                                                                                                             541
                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1261
                     121
                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1441
                                                                                                                 g
                                                                                                                                                           ઠ
                                                                                                                                                                                            셤
                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                      ò
                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention describes a method for modifying steroid production in a mammal which comprises administering a compound that alters cholesterol or cholesteryl ester transport from high-density lipoprotein (HDL) or other lipoproteins to liver or steroidogenic tissues via SR-BI (scavenger receptor class B type I). This method is useful for female contraception, for treating disorders characterised by overproduction of steroids, for treating disorders characterised by underproduction of steroids, especially menopause, for treating disorders that can be treated by decreasing steroid production, especially breast cancer, prostate cancer, endometriosis or fibroid tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GCCACCTGCAGGGCTACTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCACCTGCAGGCCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTGAGCCCCGCGAGCCCGGCACACACGCGCATGGGCGGCAGCGCCAGGGCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGCCTGTCCTTTGCAATGTGGAAGGAGTCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTGGCGGTCGGCGTCGTGGGCTGTGCTGTGCTGTGCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                  Scavenger receptor class B type I; hamster; steroid production; HDL cholesterol; cholesteryl ester transport; high-density lipoprotein; lipoprotein; steroidogenic tissue; SR-BI; contraception; treatment; disorder; overproduction; underproduction; menopause; breast cancer; prostate cancer; endometriosis; fibroid tumour; ss.

    by administering

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 2; Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1788 BP; 370 A; 511 C; 487 G; 420 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                        Modification of steroid production in mammals modulator of SR-BI expression or activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 1788;
100.0%; Pred. No. 0;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                   (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 77; 86pp; English
                                                                                                                                                                                                                               98WO-US018463.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 100.0%;
Matches 1788; Conservative (
                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-204984/17.
P-PSDB; AAW93574.
                                                                                                                      Cricetulus griseus.
                                                                                                                                                         WO9911288-A1.
                                                                                                                                                                                                                               04-SEP-1998;
                                                                                                                                                                                                                                                                05-SEP-1997;
                                                                                                                                                                                                                                                                                                                                     Krieger M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
```

셤

용

ò

셤

ò

셤 Š

ò

ò

윱

1020

1140

Gaps

ö

Indela

ö

Mismatches

ö

```
Matches 1788; Conservative
                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   196
                                                                 61
                                                                                                          121
                                                                                                                                                                                                241
                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                        엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                     à
                                       g
                                                               δ
                                                                                셤
                                                                                                        ò
                                                                                                                              요
                                                                                                                                                    8
                                                                                                                                                                     g
                                                                                                                                                                                              8
                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                    1560
                                           1620
                                                       AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                    CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents coding sequence of the hamster scavenger receptor class BI (SR-BI) which is used in a method of modulating cholesterol transport. The method comprises selectively altering the transport of lipid, cholesterol and/or lipoproteins (or their components) into and out of mammalian cells to alter plasma cholesterol levels, by administering a compound which alters the expression or activity of the SR-BI scavenger protein receptor. This alters the rate of clearance of the protein component of high density lipoprotein (HDL) as compared to the ester component of HDL. The method may be used to control cholesterol levels in the blood plasma of mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for the control of cholesterol levels
                                                                                                                                                                                                                                                                                                                                          Hamster; scavenger receptor; modulation; cholesterol transport; lipid; lipoprotein; mammalian cell; plasma; expression; clearance rate; HDL; high density lipoprotein; ester; blood; ds.
                                                                                                                                             TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
           1501 TGGGGCTGGCGCCTCCTGCTGCTGCTGCTCTACCAGTTGCGCAGCAGAGA
TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                           AATGCTTTTTATTTTTGGAGTGGTAGTAAAAGGGCTCGCAGGATAAAGGAGGCCATTCAGG
                                                                                                                                                                         CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                      Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 370 A; 511 C; 487 G; 420 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 1788; 100.0%; Pred. No. 0;
                                                                                                                                                                                                                                                                                                                       gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UNIV PENNSYLVANIA.
MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Col 19-21; 23pp; English
                                                                                                                                                                                                                                                                                                                     Hamster Scavenger receptor class BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  봈
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modulating cholesterol transport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Krieger M, Rigotti A, Kozarsky
                                                                                                                                                                                                                                                     AAZ30615 standard; cDNA; 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                      96US-00749907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96US-00749907
                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-589717/50.
P-PSDB; AAY44019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-NOV-1996;
                                                                                                                                                                                                                                                                                                18-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                             US5962322-A.
                                                                                                                                                                                                                                                                                                                                                                                       Cricetulus
                                          1561
                                                               1561
                                                                                    1621
                                                                                                          1621
                                                                                                                               1681
                                                                                                                                                    1681
                                                                                                                                                                         1741
                                                                                                                                                                                                                                                                          AAZ30615;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MASI )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  blood
                                                                                                                                                                                                                              RESULT 3
                                                          8
                                                                                                      요
                                                                                                                                               셤
                                                                                                                                                                         8
                                                                                                                                                                                                                                                     요
                                         ઠે
                                                                              ò
                                                                                                                              ઠે
```

Best Local Similarity

```
840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                960
                                                                                120
                                                                                                                           120
                                                                                                                                                                      180
                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           600
                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
9
                                      9
                                                                                                         61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTGAGCCCCGCGAGCCCGGCCGCACACGCGGACATGGGCCGCCAGCGCCCAGGGCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGGACCCTATGTCTTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGAGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGAGATGAACAACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                          GCCACCTGCAGGGCTACTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                   AGCCTCGGCTTCTGTCTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                           TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                     TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATACTGTGTGTCCTTTGTGGAGCACCCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u> AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                      CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

ŏ

요

ठे 셤 ò 셤 à

ઠ

유

8 유 ð

셤

ò

원

유

```
The present invention relates to a new scavenger receptor protein type B1 which selectively binds to low density lipoprotein (LDL) and modified lipoprotein with the characteristics of acetylated LDL. The invention is useful for screening for drugs that inhibit the uptake of cholesterol in endothelial or adipose cells or macrophages, and for screening for other lipoprotein receptors. The present nucleic acid sequence encodes the hamster scavenger receptor protein type B1 (haSR-B1) of the invention
                                                                                                                                                                                                                                                New scavenger receptor protein type B1 useful for screening for drugs that inhibit the uptake of cholesterol in endothelial or adipose cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 eccaccideaddecraciderecrececeaerecrecreadaerecriseridaaacere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 Agcercagerrerarearererargagecrerargacerrerargacerereceerres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 ecerceccerececerecerecerecerecererecererecererecererecereres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361 TCTTCGAGGTGATCAATCCCAGGGGGAGATCCTAAAGGGTGAGAAGGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTGAGCCCCGCGAGCCCGGCCGCACACGCGGACATGGGCGGCGCGCCCAGGGCGCGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 6; Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1788 BP; 370 A; 511 C; 487 G; 420 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ·
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 1788;
100.0%; Pred. No. 0;
iive 0; Mismatches
                                                                                                               (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                      Æ
                                                                                                                                                                                                                                                                                                                       Claim 3; Col 27-28; 31pp; English.
                                     94US-00265428
                                                                           94US-00265428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 1788; Conservative
                                                                                                                                                                                        WPI; 2002-689668/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                            P-PSDB; ABG33056.
                                   23-JUN-1994;
                                                                           23-JUN-1994;
                                                                                                                                                                                                                                                                                        macrophages.
 06-AUG-2002
                                                                                                                                                      Krieger M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1500
                                                                                             1200
                                                                                                                                 1200
                                                                                                                                                                      1260
                                                                                                                                                                                                            1260
                                                                                                                                                                                                                                                1320
                                                                                                                                                                                                                                                                                      1320
                                                                                                                                                                                                                                                                                                                           1380
                                                                                                                                                                                                                                                                                                                                                                 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                             1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1740
                                                                                                                                                                                                                                                                                                                                                                                                     TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGCCGCGGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hamster; scavenger receptor protein type B1; low density lipoprotein;
LDL; cholesterol; endothelial; adipose; macrophage; lipoprotein receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= a
/product= "Hamster scavenger receptor type Bl (haSR-Bl)"
                                     CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCCGTGCCTTGAATCCGGCATTC
                                                                                                               CTITIGITICCTTGACATCCATCGGGTCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                    CTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                       AGATAAGCCTCTACAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                   resrecrecearriscrerestricascasascesreceareseceasecereaaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19666CTGGCCGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1501 redescriescescercerecrisersecrescerereraceastriescesasceasea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATGCTTTTTATTTTTGAGTGGTAAAAAGGGCTCGCAGGATAAGGAGCCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                           AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                      ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cDNA encoding hamster scavenger receptor type B1 (haSR-B1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
156. .1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; cDNA; 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor; gene; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cricetulus griseus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US6429289-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-NOV-2002
               1081
                                                     1081
                                                                                           1141
                                                                                                                                 1141
                                                                                                                                                                  1201
                                                                                                                                                                                                        1201
                                                                                                                                                                                                                                              1261
                                                                                                                                                                                                                                                                                    1261
                                                                                                                                                                                                                                                                                                                         1321
                                                                                                                                                                                                                                                                                                                                                             1321
                                                                                                                                                                                                                                                                                                                                                                                                     1381
                                                                                                                                                                                                                                                                                                                                                                                                                                           1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABS53744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABS53744;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
```

180 240 300 300

180

120

9

420

360

480

480 540

ZXLXEXXXXXXHILLXXXX

9

us-08-765-108-3.rng

8

셤

ò

셤 8 셤

8

셤

ઠે

셤 Š 셤 δ 셤 ઠે 용 ઠે 셤 ò 셤 ò ద 8 셤 δ g 8 셤 ઠ 셤 ð g ઠે 셤 à

ઠ

```
1681 TGTAGGGTCCCCAAAGACACCACCACCCCCCAAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 AGCCTCGGCTTCTGTCATCTCTGTGGCTTCTGTCGCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to an antibody specific for scavenger receptor protein type B-I (GR-BI) derived from murine and hamster. Antibodies of the invention are useful for detection, characterisation and isolation receptor proteins and for inhibiting scavenger protein binding to low density lipoprotein (LDL). The present sequence is hamster (ha) SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antibody specific for scavenger receptor protein type B1 useful for detection, characterization or isolation of receptor proteins, as well inhibiting scavenger protein binding to low density lipoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGACTGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                            LDL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6; Length 1788;
                                                                                                                                                                                                                                                                                            low density lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1788 BP; 370 A; 511 C; 487 G; 420 T; 0 U; 0 Other;
                                                                              ccaecccracaccccecricireaegacrerereaegacacacree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                             Hamster scavenger receptor type B-I (haSR-BI) cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= a
156. .1685
/*tag= b
/product= "haSR-BI protein"
1666. .1788
/*tag= c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 1788;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Col 31-32; 41pp; English.
                                                                                                                                                                                                                                                                                           Scavenger receptor protein type BI;
                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
1. .155
.*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ą
                                                                                                                                                               BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rigotti
                                                                                                                                                               CDNA; 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-00241581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00265428
97US-00765108
                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.
Matches 1788; Conservative
                                                                                                                                                                                                                                                                                                             hamster; SR-BI; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Krieger M, Acton SL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-314680/35.
P-PSDB; AAE21523.
                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-JUN-1994;
27-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6350859-B1
                                                                                                                                                                                                                             16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-FEB-2002
                                                                                                                                                                                                                                                                                                                                           Cricetulus
                                                1741
                                                                                                                                                               AAD33915
                                                                                                                                                                                             AAD33915;
                                                                                                                                                                                                                                                                                                                                                                         Key
5'UTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3'UTR
                                                                                                                             AAD33915
                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                셤
                                              ઠે
                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1680
                                                                                                                                                                                                                                                                                                                                                                                          1020
                                                                                                                                                                                                                                                                                                                                                                                                                        AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAATGGGTCTGTTTACCCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGCCGCGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                            960
                                                                                                                                                                                                                                                                                                                                                          960
 99
                               999
                                                               720
                                                                                               720
                                                                                                                               780
                                                                                                                                                             780
                                                                                                                                                                                             840
                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                           900
                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1501 TGGGGCTGGGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATGCTTTTTTATTTTGGAGTGGTGGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGTCCTCCCATTGCTGTGTGTGAGCAGAGCGGTGCCATGGGCGGCGGCGGCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cerrcracacecaecrecreareccccaegracrrcagrarerecaerarerec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGGGCTGGCGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                 ATTTTATCAACAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                  841 GCAAGATCCACCTGGTGGACAGAATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                          AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGCAGCATT
                  AGAGCAAGTCTGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                               ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                           TTGAGATGAACAACTCAGACTCTGGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                 TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                           AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                         AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                               GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                               601
                                                                                                                                                           721
                                                                                                                                                                                                                                                           841
                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                        196
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1681
601
                                                               661
                                                                                                                           721
                                                                                                                                                                                           781
                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                        196
```

ö

9 9

ō

q

1201 ATGCAGACCCTGTGCTATCAGAAGCGGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT  1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT  1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGACCCTGACCCAAGGGAGCATT  1261 CTTTGTTCCTTGACATCCATCGGTCACTGGGATCCCCATGAACTGTCTTGGTTGC		53334 st 53334; MAY-2006 ster SR- ster; SR lesterol lesterol	Cricetinae gen. sp.  Key Location/Qualifiers CDS /*tag= a /product= "Hamster SR-BI"  US2003167475-A1.  04-SEP-2003.  24-JUN-2002; 2002US-00178611.  15-NOV-1996; 96US-00749907.  30-AUG-1999; 99US-00385799.
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 6 8 6 8 6 8 6 8	RESULT 6 ADJ53334 ID ADJ XX AC ADJ XX DT DE Ham XX KW Ham KW Ham KW anth KW anth KW anth	X X E Y F F Y X X X X Y X X X X X X X X X X X
	· ,	· · · · · · · · · · · · · · · · · · ·	
			00 00 00 00 00 00 00 00 00 00 00 00 00
AGCCTCGGCTTCTGTCATCTCTGTGGCGTTCTGTCGCTGTCCCCCTTCAGTC 120 CCTGAGCCCGCGAGCCGCACACGCGGACATGGCGGCGCGCGC	TCTTCGAGGTGGTCATTCCCAGGAGATCCTPAAGGTGAGAAGCCAGTAGTGTGTGTGTGTGTGTGTGTGTG	######################################	AGTCCTCGCTCGCATACTTCAGTCCCGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020  AGTCCTCGCTCGCAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020  ATTCAGGGGTCTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTTG

```
The invention relates to a method for screening compounds that alter transport of lipids, cholesterol, lipoproteins or their components, mediated by the SR-B1 scavenger receptor (SR-B1 HDL receptor) or a homologue. The test compound is administered to an animal and cholesterol or bile acid levels, production levels of steroid hormones or alterations in chemical composition of lipids, lipoproteins, cholesterol, steroid hormones, bile acids and Vitamin A is measured. Agents that alter transport of lipids, cholesterol or lipoproteins are potentially useful for the treatment or prevention of atheroscales, fat uptake by adipocytes and some endocrine disorders. This sequence represents cDNA encoding the hamster SR-B1 scavenger receptor of the invention.
                                                                                                                                                                                    Screening for agents that influence lipid transport, useful e.g. for treating or preventing atherosclerosis, based on modulation of the SR-BI scavenge receptor.
                                                                                                                                                                                                                                                                               Disclosure, SEQ ID NO 1; 22pp; English.
                                                                                      Krieger M;
                                                                                 Kozarsky K, Rigotti A,
                                                                                                                           WPI; 2004-246237/23.
P-PSDB; ADJ53335.
(KOZA/) KOZARSKY K.
(RIGO/) RIGOTTI A.
(KRIE/) KRIEGER M.
```

6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
de	78
• •	8 4
, a	9
g qc	90
is a	96
6 6 6 6	
2y 100	108
ä	B1 CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
- H -	120
i 2	126
0b 12	126
2y 12,	61 CITTGITCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
H 1	138
H F	138
13 13	81 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGTGCCATGGGCGGCGGCGGCCCTGAACA 1440
2y 14	150
Db 14	150
2y 15 0b 15	15
2y 15	61 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGCCATTCAGG 1620 61 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
71 -	1 1970年 1971年 1971年 1970年 197
2y 16.	0 0
Oy 16	81 IGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740

```
TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to determining whether a subject has, or is at risk of developing, an abnormally low high density lipoprotein (HDL) level, involves determining the identity of the allelic variant of a polymorphic region of the SR-BI (scavenger receptor BI) gene of the subject, and comparing the allelic variant of the subject with allelic variants associated with abnormally low HDL levels. Also included are a kit for determining whether a subject has, or is at risk of developing, a low HDL level (comprises a probe or primer which is capable of hybridising to an SR-BI gene, and thus identifying whether the SR-BI gene contains an allelic variant of a polymorphic region which is associated with a low HDL level) and predicting the effect of hormone replacement therapy on the HDL level in a female subject (by identifying one or more allelic variants of the SR-BI gene which are associated with abnormally low HDL variants of the SR-BI gene which are associated with abnormally low HDL
                                                                                                                                                                                                                                                                                                                                                                    Human, 88; gene; scavenger receptor BI; SR-BI; cardiant; antilipemic; high density lipoprotein; HDL; hormone replacement therapy; postmenopausal female; cardiovascular disorder; coronary heart disease; atherosclerosis; stroke; ischaemia; restenosis; congestive heart failure; gangrene; SNP; single-nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                resulting cardiovascular disorders (e.g. coronary heart disease, atherosclerosis, stroke, ischaemia, restenosis, congestive heart failure and gangrene) by administering a compound that increases HDL levels, when the subject has been identified as having the common allele at residue 41 of exon 8. The present sequence is a cDNA encoding a SR-BI protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Determining if a subject has or is at risk of developing abnormally low high density lipoprotein level, involves determining identity of allelic variant of polymorphic region of SR-BI gene of the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              levels in females (especially postmenopausal females), thus predicting the effect of hormone replacement therapy on the HDL level in the subject). Also disclosed are methods of treating low HDL levels and
                                                                    Sequence 1825 BP; 377 A; 525 C; 496 G; 427 T; 0 U; 0 Other;
                                        CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC
                                                                                                                                                                                                                                                                                                                              Human cDNA encoding scavenger receptor BI, splce variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1, Fig 3, 84pp, English.
                                                                                                                                                                                            ACD44926 standard; cDNA; 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97US-00890979,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-FEB-2001; 2001US-00779152
                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mccarthy JJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ACTO/) ACTON S L. (MCCA/) MCCARTHY J J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2003-503489/47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-503489/
P-PSDB; ABO27241.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2003044782-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-JUL-1997;
27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                  10-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Acton SL,
                                        1741
1681
                                                                                                                                                                                                                                       ACD44926
                                                                                                                                                                        ACD44926
                                                                                                                                               RESULT
                                      ò
                                                                             셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                          120
                                                                                                                                                                                                            180
                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                                                       360
                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           960
                                                                                                    9
                                                                                                                                                                                                                                                                                                      181. GGGTGGCGGTGGGCGTGGCGTGGCGCTGCTGTGCCTCTCGTGCCTCGGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                     241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 TCTTCGAGGTGGTCCAATCCCAGGGAGATCCTAAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGGACCCTATGTCTACAGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      781 TTGAGATGAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                        61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTGTCGCTGTCCGCTTCAGTC
                                                                                                                                                                                                                                             121 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCCGCAGCCCCAGGCCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATACTGTGTCCTTTGTGGGGCCCCCGCGCCTCCATTCCAGCCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Greccirrargaacceaacaerregreaearccrereregecrareaearcccrreerea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                    1 GCCACCTGCAGGGCTACTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                               TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                       GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGGACCCTATGTCTACAGGGAATTCAGACATAAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                          121 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGAGATGAACAACTCAGACTCTGGGCCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                       Gaps
                                     ö
     Length 1825;
                                     Indels
                                     ö
     DB 9;
                                                                                                                                          61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGC
Query Match 99.9%; Score 1786; Lest Local Similarity 100.0%; Pred. No. 0; Matches 1786; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             961
                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                          ઠે
                                                                                                                                                                        셤
                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
```

```
1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                      ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                                           CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                    AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                           TGGTCCTCCCATTGCTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGGGCTGGGGGCGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501 TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                              CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATGCTTTTTATTTTGAGTGGTAGTAAAAAGGGCTCGCAGGATAAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGCGGCGAGCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AATGCTTTTTTTTTTTGGAGTGGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                               AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1741 CCAGCCCCTACACCCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                       1081
                                                                                                                               1141
                                                                                                                                                                                                      1201
                                                                                                                                                                                                                                          1201
                                                                                                                                                                                                                                                                            1261
                                                                                                                                                                                                                                                                                                                1261
                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                           1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1561
                                                                                       g
                                                                                                                                                            g
                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                             ઠે
                                                                                                                                                                                                    ઠ
```

ADJ46120 standard; cDNA; 1825 06-MAY-2004 (first entry) ADJ46120; RESULT 8 ADJ46120 BX8X8X4X4X4X8XBX6X1

Human variant cDNA encoding scavenger receptor CD36L1

Human; ss; gene; scavenger receptor class B type 1; CD36L1; SNP; single nucleotide polymorphism; coronary artery disease; atherosclerosis; cardiovascular disease; myocardial infarction; stroke; gangrene; high density lipoprotein; HDL; TG; triglyceride; diabetes; obesity; metabolic disorder.

Homo sapiens

JS2004023225-A1

05-FEB-2004

05-AUG-2002; 2002US-00212848.

05-AUG-2002; 2002US-00212848.

(VITI-) VITIVITY INC

Accarthy

WPI; 2004-224681/21. P-PSDB; ADJ46121. Determining the presence of abnormally high triglyceride (TG) level or TG:high density lipoprotein cholesterol ratio comprises determining if the subject has an allelic variant of a polymorphic region of the CD36L1

Disclosure; SEQ ID NO 3; 80pp; English

The invention relates to determining whether a subject has, or is at risk of determining abnormally high triglyceride (TG) level or an abnormally high TG level or TG; HDL-C ratio, comprises determining whether the subject have of diagnosing or adding in the diagnosis of associated with abnormally high TG level or TG; HDL-C ratio in a subject, a method for comprising or adding in the diagnosis of an object having a disease or discorder associated with specific anlelic variante of a CD36L1 gene, a kit for determining whether a subject having a disease or discorder associated with specific abnormally high TG; HDL-C ratio (CC) developing, abnormally high TG; HDL-C ratio (CC) hybridising to a polymorphic region associated with abnormally high TG; HDL-C ratio (Comprising or hybridising to a polymorphic region associated with abnormally high TG; HDL-C ratio (Comprising or hybridising to a polymorphic region associated with abnormally high TG; HDL-C ratio (Comprising or Explanant Herapy on the TG; Howel or TG; HDL-C ratio in a female subject, a medical information greew for ansessing a subject, a medical information system for assessing a subject, a medical information system for assessing a subject, a method for predicting the containing biological information from the individual to obtain subject, a method for a CD36L1 genetic profile, means for obtaining biological information from the individual to obtain to TG; HDL-C ratio and method are contained and an anomally high TG level or TG; HDL-C ratio and an actio and the cD36L1 digital genetic profile to generate a risk assessment report for developing an abnormally high TG level or TG; HDL-C ratio, and completed method are useful for identifying risk for developing an abnormally high TG level or TG; HDL-C ratio, and the complete may be used for disorders a nidividual. The composition and method of assessing the health of an individu

Sequence 1825 BP; 377 A; 525 C; 496 G; 427 T; 0 U; 0 Other; 

Gaps 99.9%; Score 1786; DB 12; Length 1825; 100.0%; Pred. No. 0; Live 0; Mismatches 0; Indels 0; Query Match Best Local Similarity 100. Matches 1786; Conservative

ö

9 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG 

> 엄 ò 엄 ð

61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC

61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTTCTGTCCCCTTCAGTC

120

1201 ATGCAGACCCTGTACAGAAGCCGTTCTGGGTCTGAACCCTGACCCGAGGGATT 1260     1201 ATGCAGACCCTGACATCCGGTCACTGGGTCCCTGAACTGTCTGT	RESULT 9  AEB03941  ID AEB03941  XX  AC AEB03941;  XX  XX  XX  XX  XX  XX  XX  XX  XX
	721 ATTTATCAACAATACTACCAGACATGTTCCCCATCAAGGCAAGTTCGGCCTGTTTG 721 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCAAGTTCGGCCTGTTTG 721 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCAGCCTGTTTG 722 ATTTATCAACAAAAAACTCAAGACTCTGGCTTCAAGGCACACTCGGCCTCCAAACTTCA 731 TTGAGATGAACAACTCAGACTCTGGCTCTCATGTTCACGGGCGTCCCAAACTTCA 732 TTGAGATGAACACTCAGACTCTGGCTCTCATGTTCACGGGCTCCAGAACTTCA 733 TTGAGATGAACACTCAGACTCTGGCTCTCATGTTGTTCACGGCTCTCAGAACTTCAG 741 GCAAGATCCACCTGGTGGACACTTCCGGGCTCAGCAGACTCACGAACTTCAG 742 TTGAGATGCAACACTGGACACATGGCAAATGGGCTCAGCAGACTACACAGCATTCAG 744 GCAAGATCCACCTGGTGGACATGGCACTTCCGGGCACATGAACTCATGACACCCC 745 TTGAGATGCAACATGATCAATGGCAATTCCGGGCACAAGCTCAACTGCAACTCCC 746 TTGAGATGCAACATGATCAATGGCACTTCCGGGCACATCATGAACTCCCCC 747 AGCAGTGCAACATGATCAATGGCACTTCCGGGCACATTCATGAACTCTCATCACACCC 746 TTGAGAGTTTTAACACCCCCACCTTCCAGGCCCCTAAAACTTTGTTTG

The present invention relates to a movet generically engineered mouse, or cells derived from it, where Scaenger Receptor Class B-1 (SR-BI) gene expression or SR-BI activity has been inactivated. SR-BI is a high density lipoprotein (HDL) receptor. It was found that estrogen convergulates SR-BI in ret density lipoprotein (HDL) receptor, and estrogen also upregulates SR-BI in rat advanced membranes and orber non-placental servologenic tissues from animals treated with estrogen, but not in other non-placental non-steroidogenic tissues. Also, overexpression of the SR-BI in the hepatic tissues a decrease in blood cholssterol levels. The animal is useful as a model for designing drugs that can modulate cholesterol transport or that can stimulate or inhibit the binding to and lipid useful as a model for designing drugs that can modulate cholesterol concentes mediated by SR-BI and redirect uptake and metabolism of lipids and cholesterol by cells. The present sequence is a coding sequence for SR-BI, which was used to illustrate the invention. Note: The SEQ ID I concleotide deletion at the end of each line of the sequence shown in the sequence listing, the sequence shown in ABB033937) is stated to be 1788 nucleotides in length. However, there appears to be a 1 to 3 cucleotide deletion at the end of each line of the sequence shown in the length. Therefore a corrected version of the sequence has been produced with Ns added to replace the missing nucleotides (the sequence has shown in ABB03991). SEQ ID I is stated to encode SEQ ID 2 (given in ABB03991). New genetically engineered mouse or derivative cells with inactivated SR-BI gene expression or activity, useful as a model for designing drugs that can modulate cholesterol transport. The present invention relates to a novel genetically engineered mouse, cells derived from it, where Scavenger Receptor Class B-1 (SR-BI) gene Disclosure; SEQ ID NO 1; 21pp; English Krieger M; À Rigotti WPI; 2005-457475/46 P-PSDB; AEB03938 Kozarsky K, 

ö

Sequence 1788 BP; 354 A; 492 C; 468 G; 404 T; 0 U; 70 Other;

ö 240 300 360 420 241 TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCNN 300 301 GCAGCCTGTCCTTTGCAATGTGGAAGATCCCTGTACCCTTCTACTTGTCCGTCTANN 360 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120 61 Adctrodectroricitatoricitatescrotrarescrititaticae 120 121 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGCAGGCGCCAGGCCCGCGCT 180 181 GGGTGGCGGTGGGCGTCGTGGGGCTGTGCGCTGTGCTCGGTGTGCTTATNN 240 361 TCTTCGAGGTGATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC 420 GIGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG 480 9 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAGGCCAGTAGTGCGGGANN 1 GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTN 181 GGGGGCGGTGGGCGTCGTGGGCTGTGCGCTGTGCGCTCGGTGGGTTATGA 241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT 1 GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG Gaps ö Query Match
96.1%; Score 1718; DB 14; Length 1788;
Best Local Similarity 96.1%; Pred. No. 0;
Matches 1718; Conservative 0; Mismatches 70; Indels 0; 61 301 361 421 a ò g ద 셤 g ò 용 ò 셤 ઠે ò ò ઠ

1021 ATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTNNN 1080 1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCNNN 1380 961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCANNN 1140 1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTNNN 1200 CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380 1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCNNN 1500 1501 TGGGGCTGGGCGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGNNN 1560 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200 1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620 540 780 840 840 900 GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTNN 901 AGCAGTGCAACATGATCAATGGCACTTCCGGCAGATGTGGGCACCATCATGACACCNN 481 ATACTGTGTCCTTTGTGGAGCACCCCCATTTTCCAGCCGACAGGTCCCACGGNN ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTNN TIGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGGGTCAGAACTTNN GCAAGATCCACCTGGTGGACAGATGGATTGGGCTCAGCAAGGTCAACTACTGGCATTCAG GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCNN AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC 961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCNNN ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCAGTAATGATGG CTITICITICATION CATCOCATCACTGGGATCCCCATGAACTGTTCTGTGAAGTNNN TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCCAGC TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 541 841 541 601 661 721 721 781 781 841 901 1021 1081 1081 1141 1201 1261 1261 1321 1381 1381 1441 1501 661 1201 셤 ò g ò 셤 δ g à 셤 δ g ે a ò d ò g Š g ò DP à g ò 셤 ò Б ò 유 ò g Š 셤 ò 셤 8

```
The invention relates to cancer-associated proteins (CAP) and the cancer-associated (CA) nucleic acids encoding them. The invention also relates to associated (CA) nucleic associates involving administering to a patient an inhibitor of CAP, and a method of screening for anticancer activity in a potential drug involving providing a cell that expresses a CA gene, contacting a tissue sample derived from a cancer cell with an anticancer drug candidate and monitoring the effect of the anticancer drug candidate and monitoring the effect of the anticancer drug candidate on expression of the CAP protein in a test cell sample and for screening for a bhoactive agent capable of modulating the activity of a CAP protein. The CA nucleic acid in a tissue in a sequence represents murine CA cDNA of the invention. Note: The sequence agent did not form part of the printed and the sequence represents murine CA CDNA of the invention.
                                 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                   CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAGAGAAGCCANNN 1680
                                                                                                           TGTAGGGTCCCAAAAGACACCACGAGCCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                               1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCNNN 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer-associated protein; CAP; cancer-associated gene; CA; gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel human cancer associated protein encoded within open reading frame of cancer associated gene, useful as targets for diagnosing cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                       1741 CCAGCCCCTACACCCGCTTCTTGAGGACTCTCTCAGGGGACAGTCGC 1788
                                                                                                                                                                                       CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 2496 BP; 517 A; 741 C; 660 G; 578 T; 0 U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                             Murine cancer-associated (CA) cDNA MR07-081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 564; 182pp; English.
                                                                                                                                                                                                                                                                                                                         ABD33431 standard; cDNA; 2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-DEC-2002; 2002US-00322281.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-DEC-2003; 2003WO-US040081.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SAGR-) SAGRES DISCOVERY INC:
                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Morris DW, Malandro MS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88; cancer; cytostatic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-499109/47.
P-PSDB; ABO84950.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004058146-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 specification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                       18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JUL-2004
1561
                                   1621
                                                                       1621
                                                                                                             1681
                                                                                                                                                                                     1741
                                                                                                                                                                                                                                                                                                                                                               ABD33431;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse;
                                                                                                                                                                                                                                                                                       RESULT 10
                                 ò
                                                                   g
                                                                                                                                               g
                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                       Ś
```

ï

Gaps

1;

DB 13; Length 2496;

Score 1441.2; DB 13; Lengt Pred. No. 0; 0; Mismatches 208; Indels

Query Match
Best Local Similarity 88.3%;
Matches 1577; Conservative

```
961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                           120
                                                                                                                         180
                                                                                                                                                          217
                                                                                                                                                                                        240
                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             960
                                                                                          99 AGTCTCGGCTTCTGTCTCTGTGGCCTCGTCACCTCTGTCTCCGT-CTCCTTCAGGT 157
                                                                                                                                                                                                                                                                                                                   GCAGCCTGTCCTTTGCAATGTGGAAGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT 360
                                                                                                                                                                                                                                                                                                                                                                                                                 457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               937
 9
                             98
                                                                                                                                           TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                     GTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGATCCCTTCGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  938 AGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                    218 degredecriedederrededececriederecrierringerecriedecerrencarda
                                                                                                                                                                                                                                                                                                                                        GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   458 GTGGACCCTATGTCTACACAGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 758 ATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              878 GCAGGATCCATCTGGTGGACAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    998 AATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGAACCTAACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCACCTGCAGGGCTACTGCTGCTGCTCCGGCCACTGCTGAGACTCACCTTGCTGGAAGAGTG
                                                                                                                         121 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCT
                                                                                                                                                                                         GGGTGGCGGTGGGGCTCGTGGGGCTGCTGTGCGCTGTGCTCGTGCTCGGTGTGGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            518 ACACCGIGICCTTCGTGGAGAAACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCAGTAATGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         578 CAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     638 AGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCACCATGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                  338 (
                                                                                                                                                                                        181
                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               818
                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             901
                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                            ò
                                                                                        g
                                                                                                                         8
                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
 ઠે
                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
```

```
The present invention describes an isolated cancer associated (CA)

nucleic acid (1). Also described: (1) an expression vector comprising (1);

(2) a host cell comprising (1) or the expression vector comprising (1) or che expression vector; (3) a miscrarray for detecting a CA nucleic acid; (4) an isolated cancer associated protein (CAP) polypeptide, encoded within an open reading frame frame of a CA sequence; (5) an isolated antibody, or its antigen binding fragment, that binds to the above polypeptide; (6) a hybridoma that comprising the above monoclonal antibody; (7) a pharmaceutical composition (C comprising the above antibody and a pharmaceutical excipient; (8) a kit for detecting cancer cells; comprising the method for described above; (9) methods for diagnosing cancer or for detecting the comprising the antibody and antibody and apharmaceutical excipient; (8) a kit for described above; (9) methods for diagnosing cancer cells in an individual; (11) a method for inhibiting growth of cancer cells in an individual; (12) an electronic library comprising the above polymolecitide or polypeptide, or their fragments; (13) methods of screening the activity of a CAP; (14) or their fragments; (13) method for treating the activity of a CAP; (14) or a test cell sample, or with the presence of an antibody in a test cent sample; (15) a method for treating cancers; and (16) a method for the composition and methods are useful for detecting, diagnosing, the composition and methods are useful for detecting, diagnosing, or preventing and treating cancers, especially lymphoma and leukaemia. They may also be used in screening for agents that modulate cancer. The present sequence represents a cancer associated gene cDNA sequence, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                   New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 AGCCTCGCCTTCTGTCATCTCTGTGCCCTTCTGTCGCTTCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    39 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACGCCAGGCACACACCTTGCTGCTGAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99 Agrichicigicrichtericricheregechtecentericrichterichen - cretricager
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGTGGCGGTGGGCGTCGTGGGGCTGCTGTGCGCTGTGCTCGCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       278 récréarderecercercardadeacadeagerecreaagaardececaragaecega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121 CCTGAGCCCCGCGGGCCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCAGCCTGTCCTTTGCAATGTGGAAGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 13; Length 2496;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2496 BP; 517 A; 741 C; 660 G; 578 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 1441.2; DB 13; Lengt
Pred. No. 0;
0; Mismatches 208; Indels
                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 78; 166pp; English
  23-SEP-2003; 2003US-00669920.
15-DEC-2003; 2003US-00737318.
                                                                                       SAGR-) SAGRES DISCOVERY INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 88.3%;
Matches 1577; Conservative
                                                                                                                                               Malandro MS;
                                                                                                                                                                                                    WPI; 2004-652915/63
                                                                                                                                                                                                                              P-PSDB; ADR67033
                                                                                                                                               Morris DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ₹
CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                               ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                                                                                                     1297
                                                                                                                                                                                                                                                                                                                                          CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                  1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAG 1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1418 TAGTICTGCCGTTGCTGGTTCGAACAGAGCGGAGCAATGGGTGGCAAGCCCCTGAGCA 1477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATGCTTTTTATTTTGGAGTGGTAGTAAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      resescrines a de concertant de la constant de la co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCAAGAAGCCAAGG 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCAC 1777
                                           AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                   ACCCCCACCTGTGTCACAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                  certerrectadacarecarecagicacidadarececardaacierreradaagaree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene;
therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1778 CCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer; cancer associated nucleic acid; cancer associated cancer associated protein; CAP; cytostatic; vaccine; gene lymphoma; leukaemia; mouse; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mouse cancer associated gene cDNA sequence SEQ ID NO:78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADR67032 standard; cDNA; 2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-0038838.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-FEB-2004; 2004WO-US005000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO2004074321-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1741
                                                                                                                                                                   1178
                                                                                                                                                                                                                           1201
                                                                                                                                                                                                                                                                                   1238
                                                                                                                                                                                                                                                                                                                                          1261
                                                                                                                                                                                                                                                                                                                                                                                                  1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1718
  1081
                                                                                                                  1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADR67032;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 de en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
ADR67032
                                                    유
                                                                                                            ઠે
                                                                                                                                                           g
                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
```

98

Gaps

1;

217

300

397

```
English
                                                                                                                                                                                                                                                                                                                                                                         Murine cancer-associated cDNA #109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 974; 198pp;
                                                                                                                                                                                                                                                                                                     ADZ13454 standard; cDNA; 2513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-SEP-2004; 2004WO-US031617.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-SEP-2003; 2003US-00669920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Morris DW, Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                          cytostatic; gene; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2005-273395/28.
P-PSDB; ADZ13455.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHIR ) CHIRON CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2005031001-A2.
                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                  16-JUN-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-APR-2005:
                                                                                                                                                                                                                                                                                                                                                                                              Diagnosis;
1441
                   1478
                                                                1538
                                                                                                            1598
                                                                                                                                                      1658
                                           1501
                                                                                      1561
                                                                                                                                                                              1681
                                                                                                                                                                                                                         1741
                                                                                                                                   1621
                                                                                                                                                                                                                                                                                                                           ADZ13454;
                                                                                                                                                                                                                                                                                RESULT
                   g
                                                           셤
                                                                                     à
                                                                                                           g
                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                   Š
                                                                                                                                                                             ઠે
                                                                                                                                                                                                  셤
                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1477
                                                     480
                                                                                                 540
                                                                                                                                                                                                                                                                                                                           840
                              457
                                                                          517
                                                                                                                       577
                                                                                                                                             9
                                                                                                                                                                 637
                                                                                                                                                                                        99
                                                                                                                                                                                                             697
                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                         757
                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                    817
                                                                                                                                                                                                                                                                                                                                                  877
                                                                                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                                                                            937
                                                                                                                                                                                                                                                                                                                                                                                                                    960
                                                                                                                                                                                                                                                                                                                                                                                                                                        997
                                                                GIGCCITTAIGAACCGAACAGIIGGIGAGAICCIGIGGGGCIAIGAGGAICCCTICGIGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACGACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGATACTCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACGCCGACCCTGTGTTGTCAAAGCTGTTCTTGGTCTGAACCTAACCCAAAGGAGCATT
                             TCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGC
                                                   GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACTTCAATGACAATG
                                                                                               ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                            ACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCT
                                                                                                                                            CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCGCAGTAATGATGG
                                                                                                                                                        CAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGATGG
                                                                                                                                                                                       AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                    ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                  ATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                          TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                  TTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCA
                                                                                                                                                                                                                                                                                                                                                                       GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                            GCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                    AGCAGTGCAACATGAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                       AGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCACCCTTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cerrierriceradacarecarecagereceareaareceareaacrerrereaagaree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCTGAGCCTCTACATCTGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGTCCTCCCATTGCTGTGTTTGAGCAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TAGTICTGCCGTTGCTGGTTCGAACAGAGCGGAGCAATGGGTGGCAAGCCCCTGAGCA
                                                                                                                                                                                                                                                        Grécrititarda acceca ca circerca de recercio de descentros de controcidos
                             398
                                                   121
                                                                         458
                                                                                               481
                                                                                                                                           541
                                                                                                                                                                                       601
                                                                                                                                                                                                                                                        869
                                                                                                                                                                                                                                                                                                   758
                                                                                                                                                                                                                                                                                                                                                 818
                                                                                                                                                                                                                                                                                                                                                                                            878
                                                                                                                                                                                                                                                                                                                                                                                                                  901
                                                                                                                                                                                                                                                                                                                                                                                                                                        938
                                                                                                                                                                                                                                                                                                                                                                                                                                                               196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1358
                                                                                                                                                                                                           638
                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                                                                                                        841
        ઠે
                          유
                                                  Š
                                                                     셤
                                                                                              8
                                                                                                                   원
                                                                                                                                        8
                                                                                                                                                               셤
                                                                                                                                                                                      8
                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
```

1718 TATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGGTTGGTCAGACCAGCCAC 1777 associated (CA) nucleic acid, comprising two or more nucleic acid probes. The invention also relates to a peptide array comprising two or more isolated polypeptides encoded by a CA nucleic acid sequence, a compound that binds to a polypeptide, an isolated antibody or its fragment which binds to a polypeptide, which is prepared by immunizing a host animal with a composition comprising the polypeptide or its antigen binding fragment and collecting cells from the host expressing antibodies against the antipen or its antigen binding fragment, a composition comprising the method of detecting a CA nucleic acid, a method of diagnosing cancer, a method of treating cancer and a method of inhibiting expression of a CA nucleic acid in a cell. The CA nucleic acids are useful for detecting CA Nucleic acid array useful for detecting cancer associated nucleic acid, comprises two or more nucleic acid probes. CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGC cenacrereagrecengarereaceagereceaageacacegreerecaagaagecaage TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCCGTCATCTACCAGTTGCGCAGCCAGGAGA AATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGAGGCCCATTCAGG CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC The invention relates to a nucleic acid array for detecting a cancer microarray; microarray; biochip; cancer; neoplasm; 1778 CCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1823

```
absence of cancer cells in an individual which involves contacting cells from the individual with the antibody and detecting a complex of a CA protein from the cancer cells and the antibody, where the detection of the complex correlates with the presence of cancer cells in the individual. The composition is useful for inhibiting growth of cancer cells in an individual or for delivering a therapeutic agent to cancer cells in an individual. The invention is also useful for diagnosing cancer, for treating cancer and for inhibiting expression of a CA gene in invention. This sequence represents murine cancer—associated cDNA of the invention.
                                                                         8 \times 9 \times 9
```

Sequence 2513 BP: 520 A: 749 C: 664 G: 580 T: 0 U: 0 Other

ઠે 셤 ò g ò g ठ g ઠે Ωp ઠે g

	•																										
	1;	60	120	174	180	234	240 294	300	354	360	414	420	474	480	534	540	594	009	654	099	714	720	774	780	834	840	894
2513 BP; 520 A; 749 C; 664 G; 580 T; 0 U; 0 Other;		GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGGCTGAGACTCACCTTGCTGGAACGTG 60	AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCTGTCG	AGTCTCGGCTTCTGTCATCTCTGTGGCCTCCGTCACCTCTGTCTCCGT-CTCCTTCAGGT	CCTGAGCCCGGGGCGCGCGCACGCGGGACATGGCGGCGCGCGC	CCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTCCAGGGGGGCGCT	GGGTGGCGGTGGGGCTCGTGGGGCTGCTGTGCGCTGTGTGTGTGTTATGA 2	TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 3	TCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCCGA 35	GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT 3	GCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTTGTCTGTC	TCTTCGAGGTGGTCAATCCCAGGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC	TCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAAACGGCCAGAAGCCAGTAGTCCGGGAGC	GTGGACCCTATGTCTACAGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG 480	GTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACTTCAATGACAACG 53	ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT	Acaccerercerregregasaaccecacececerercacereaccreacerregerr	CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTTGGGGGGGG	CAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGATGG	AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC	AGAGCAAGCCTGTGAGCTGAAGCTGATGATGACCTTGGCGCTGGTCACCATGGGCCAGC	GIGCCTTIAIGAACCGAACAGTIGGIGAGAICCTGIGGGGCTAIGAGGAICCCTICGIGA	GIGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGATCCCTTCGTGC	ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG	ATTITCTCRACACGIACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTTTG 83	TTGAGATGAACAACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA	TTGGGATGAACACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCA
Sequence	ry Match L Local Thes 157	1 56	61	116	121	175	181	241	295	301	355	361	415	421	475	481	535	541	595	601	655	661	715	721	775	781	835
o,	Que Best Matc	ጵ ል	⋩	ą	≿	ð	ድ ብ	≿	ą	≿:	ą	≿	ą و	≿	ð	≿:	ą	⋩	ą	⋩	ą	⋩	ą	≿	ą	≿	ð

8 8

8 6 6

8 &

g

ઠે

8

중 음

8 8 8

ACTACTGGCATTCAG 900 	CATTCATGACACCCC 960	AGCTCACCTACCATG 1020	AGCTGACCTACAACG 1074	CTAAAACTTTGTTTG 1080	ccearacreritric 1134	TIGAATCCGCCATIC 1140	gadadrcredcarrc 1194			ACCCAAGGGAGCATT 1260		GTTCTGTGAAGTTGC 1320		GGAAGATCGAGCCCG 1380	GGAAGATCGAGCCAG 1434	GCGAGCCCTGAACA 1440	dcaagcccrigagca 1494	TGCAGTATGTGCTGC 1500		TGCGCAGCCAGGAGA 1560				TGCAAGAAGCCAAGC 1680		GGTCAGACCAGCCAT 1740		C 1786	C 1840
1 GCAAGATCCACCTGGTGGAACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG 900	TGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCAC 	TCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGA	TCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA	021 ATTCAGGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTG 108	addertridaddecarreceaegrarecrieaedeee	GGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCC	degrecerciaeceaeceaaegaagecricieeceargec		<u> dreadcactideadartidaridencecercigirrererice</u>	GACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTC	GACCCTGTGTGTCAGAGCTGTTCTTGGTCTGAACCCTA	TTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACT	HTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT	AGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAC	AGCCTCTACATCTATCTGTCAAGGGCATCGGGCAAACAC	CTCCCATIGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCC	creccerrecrercaacaacacacaacaataatc	441 CGITCIACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 150	TACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACC	CTGGGCGGCCTCCTGCTGGTGCCCGTCATCTACCAG1	ctrdaadactcctattactdaraccatcatctactac	TITITATITIGAGTGGTAGTAAAAAGGGCTCGCAGGATA	TTTTTGTTTTGGGGGGGGGCTCCCAGGAT	TCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGC	TCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC	GGTCCCAAAGACACCACGAGGCCCCCCCAACCTGATAGCT	GGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT	CCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAG	cctacaccccccrrrraagacrcrcrcaggacag
GCAAC   GCAGC	AGCACACACACACACACACACACACACACACACACACAC	AGTCC	AATCO	ATTC	AATC	CCAA	CCAAC	AAAA 	AGAA	ATGC?	Acgc	CTTTT	CCTTC	AGAT!	AGCTC	TGGT	TAGE	CGTT	CGTTC	TGGGC	TGGG	AATG	AATG	CCTA	CCTA	TGTA	TATA	CCAG	CCAG:
841	901	Ψ	1015	1021	1075	1081	1135	1141	1195	1201	1255	1261	1315	1321	1375	1381	1435	1441	1495	1501	1555	1561	1615	1621	1675	1681	1735	1741	1795
cy Gp	& A	ò	qq	λö	අධ	ò	Д	È	ф	ò	Д	à	Ωp	ò	οp	δ	q <sub>Q</sub>	ò	qq	č	Ob	δ,	Ωp	δλ	qq	ò	qq	ò	d d

ADB58616 standard; DNA; 2497 BP. 04-DEC-2003 (first entry) ADB58616; RESULT 13
ADB58616
ID ADB580
XX
AC ADB580
XX
DT 04-DE0

480

527

467

540 587 900 647 99 720 767 780

707

840

827

887

900

```
1248 ATGCTGACCCCGTGCTGTCAGAAGCTGTTCTTGGTCTGAACCCTGACCCAAAGGAGCATT 1307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1308 CCTTGTTCCTAGACATCCACCCGGTCACTGGGATCCCCATGAACTGTTCCGTGAAGATGC 1367
288 TTCTCATGGTGCCCTCGCTCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAAGATCGAGCCCG
                                                                                        348 GCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCCTTCTACTTGTCCGTCTACT
                                                                                                                                              361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                              468 GCGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              708 GGGCCTTTATGAACCGCACGGTTGGTGGGAACTCCTGTGGGGCTACGAAGATCCCTTTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTICCTCAGCAAATATTICCCAGACATGTICCCCATCAAAGGCAAATTIGGCCTGTICG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  888 GCAAGATCCATCTGGTGGATAAGTGGAACGGCCTCAGCGAGGTCAACTATTGGCATTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                948 AACAGTGCAACATGATCAATGGTACTGCCGGGCAGATGTGGGCACCATTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1188 AGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCTGTTTCTCTCCCCAGCCCCACTTCTACA
                                                                301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCGTCTACT
                                                                                                                                                                                                                                                                                                                                                           588 CAGAGAGTGACTACATTGTACTGCCTAACATCCTGGTCCTGGGAGGGGCCAGTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                648 AGGACAAGCCCACACAAGCCTGAAGCTGCTAATGACCTTGGGGTTTGGTCACCATGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1008 AATCCTCACTGGAATTCTTCAGCCCAGAAGCCTGCAGATCTATGAAGCTCACCTACCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1068 AATCAAGGGTGTTCGAAGGCATCCCCACTTATCGCTTCACGGCCCCCGATACTTTGTTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1128 CCAACGGGTCCGTCTACCCACCTAATGAAGGCTTCTGCCCGTGCCGCGAGTCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACACTTCTACA
                                                                                                                                                                                       retregageregreaceceagegagerecraaaregeeagageeagreeregage
                                                                                                                                                                                                                                  GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               828 TTGGGATGAACGACTCGAGTTCTGGCGTCTTCACCGTCTTCACAGGTGTCCAGAATTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                       408
                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1321
                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                              8
                                                                                                                                                                                     엄
                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                              ઠે
                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a method for predicting a toxic effect of a compound. The method comprises preparing a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the gene expression profile to a database compound, and comparing the differential expression of the gene indicates at least one toxic effect. The method is useful for predicting at least one toxic effect of a compound, predicting hepatotoxicity or the progression of a toxic effect of a compound, identifying an agent that modulates the onset or progression of a toxic response, predicting the cellular pathways that a compound modulates in a cell, and identifying an agent that modulates at least one activity of a protein. The method and compositions of the present invention using a database of genes having liver toxin-induced differential expression, are useful in identifying toxicity markers in liver tissues or cells for are useful in identifying toxicity markers in sequence data for this patent did not form part of the printed sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Predicting a toxic effect of a compound, useful in identifying toxicity markers in liver tissues or cells for drug screening and toxicity assays, comprises preparing gene expression profile of tissue or cells exposed to the compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ---crederricherckichtergechtegericherentergeren 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTGAGCCCAGCGACTCTCGGCCGCACGGGGACATGGGCGTCAGCTCCAGGGCACGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCACCTGCAGGCTACTGCTGTCTGGCCACTGTCAGGCACACACCTTGCTG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTGGCGGTGGGGCTGGCGTCGTGGGGCTGCTGTGCGTGTGCTCGGTGTGGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Elashoff M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels 11;
                                                                toxin; gene expression profile; hepatotoxicity; liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 2497 BP; 549 A; 731 C; 662 G; 555 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Castle A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1413; DB 10;
Pred. No. 0;
0; Mismatches 205;
                                                                                                                                                                                                                                                                                                                                                                                                                                           'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Ніддв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; SEQ ID NO 3642; 1156pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Johnson K,
                                                                                    drug screening; toxicity assay; ds.
                     Toxicity-related gene, SEQ ID 3642
                                                                                                                                                                                                                                                                                        ; 2002US-00060087.
; 2002US-0364045P.
; 2002US-0364055P.
; 2002US-0436643P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 87.9%;
Matches 1567; Conservative
                                                                                                                                                                                                                                                    31-JAN-2003; 2003WO-US003194
                                                                                                                                                                                                                                                                                                                                                                                                                                           Porter M,
                                                                                                                                                                                                                                                                                                                                                                                                  (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-689530/65.
                                                                                                                                                                  WO2003064624-A2
                                                                                                                           Unidentified
                                                                                                                                                                                                                                                                                           31-JAN-2002;
15-MAR-2002;
                                                                                                                                                                                                                                                                                                                                 15-MAR-2002;
30-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Mendrick D,
                                                                                                                                                                                                           07-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                              Poxic;
  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .⋩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

1140

1007

960

947

1067

```
1487
                                                                                                                                                                                                                          1547
                                                                                                                                                                                                                                                                                 1560
                                                                                                                                                                                                                                                                                                                                                                                             1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGCTTTTTATTTTGGAGTGGTAAAAAAGGGCTCGCAGGATAAGGACCCATGCAGG 1667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                     CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                     regescritésadecrecrecritéries récecare hirrareca acrece de de contra de la contra del la contra de la contra del la contra del
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTACTGCAAGAAGCCAAGC 1727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1368 AGCTGAGTCTGTACATCAAATCCGTCAAGGGCGTCGGGCAAACAGGGAAGATCGAGCCAG 1427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       toxic effect, gene expression profile; hepatotoxicity; diagnostic marker; toxicity marker; toxicity progression; drug screening; primary rat hepatocyte toxicity modelling; gene; ds.
                                                                                       1428 TAGTCCTGCCATTGCTGTGGTTCGAACAGAGCGGGATGATGGTGGCGCAAGACCCTGAACA
                                                                                                                                                                                                     CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                 TGGGGCTGGGCGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                             AATGCTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primary rat hepatocyte toxicity modelling related gene SEQ ID NO:3806
                                                       1381 TGGTCCTCCCATTGCTGTGGCTTTGAGCAGAGCGGTGCCCATGGCCGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAGTCCCTACACCCCACTTCTCGAGGACTCTCTCAGCGGACA 1830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACA 1783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADB53264 standard; DNA; 2497 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002US-0353171P.
2002US-0363534P.
2002US-0370248P.
2002US-0371134P.
2002US-0371135P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002US-0371150P.
2002US-0371413P.
2002US-0373601P.
2002US-0373602P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0374139P.
2002US-0378370P.
2002US-0378652P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002US-0378653P.
2002US-0378665P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002US-0394253P.
2002US-0407688P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2003US-0442900P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002US-0394230P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-FEB-2003; 2003WO-US003482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rattus norvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003065993-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-APR-2002;
11-APR-2002;
19-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-APR-2002;
22-APR-2002;
08-MAY-2002;
09-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-APR-2002;
10-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-AUG-2003
                                                                                                                                                                     1441
                                                                                                                                                                                                                          1488
                                                                                                                                                                                                                                                                                 1501
                                                                                                                                                                                                                                                                                                                                     1548
                                                                                                                                                                                                                                                                                                                                                                                             1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADB53264;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADB53264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                ď
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                 ઠે
                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ठ
```

```
The present invention describes a method for determining whether a compound induces a toxic effect on a tissue or cell. The method comprises preparing a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the gene expression profile to a database comprising data or information on the Tox mean and non-Tox mean value. The method is useful for predicting or identifying at least one toxic effect, particularly hepatotoxicity, of a test or unknown compound. The genes listed in the specification are useful as diagnostic or toxicity markers for the prediction or identification of the physiological state of tissue or cell sample that has been exposed to a compound, or to identify or predict the toxic effects of a compound or an agent. These may also be used as markers for monitoring toxicity progression or for drug acceening. The present sequence represents a primary rat hepatocyte toxicity modelling related gene sequence from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              287
                                                                                                                  Determining if a compound induces a toxic effect on a tissue or cell, for identifying hepatotoxic compounds, comprises comparing a gene expression profile of a tissue or cell sample to a database of Tox mean and non-Tox
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCGGACCCTATGTCTACAGGGGGTTCAGACAAAGGTTAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            288 TICTCATGGTGCCCTCGCTCATCAAGCAGCAGGGGTCCTCAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCCACCTGCAGGCTACTGCTGCTGTGGCCACTGTCAGGCACACCTTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ---cressirrererererereseceresecereseceresecer-ecertreser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  168 CCTGAGCCCAGCGACTCTCGGCCGCGCACGCGGACATGGGCGTCAGCTCCAGGGCACGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGTGGCGGTGGGCGTCGTGGGGCTGCTGTGCGCTGTGCTCGGTGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              escriescerressecriesceirrerassecristrerererecerecerresearea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          348 GCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  528 ACACGGIGICCIACAIAGAGAACCGAAGCCITCGITICCAGCCAGACAGGICCCAGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                    Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  79.0%; Score 1413; DB 10; Length 2497; 87.9%; Pred. No. 0; Live 0; Mismatches 205; Indels 11;
                    Orr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2497 BP; 549 A; 731 C; 662 G; 555 T; 0 U; 0 Other;
                    Castle A,
                    Johnson K, Higgs B,
                                                                                                                                                                                                                 Claim 44; SEQ ID NO 3806; 874pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches 1567; Conservative
                    Porter M,
                                                                          WPI; 2003-731472/69.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                  Mendrick D,
Elashoff M;
                                                                                                                                                                                mean values.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
```

```
1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                      gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    χ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Johnson
                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; Page; 446pp; English
                                                                                                                                                   Toxicity modelling related rat
                                                                                                                                                                                                                                                                                                                 2001US-0303810P.
2001US-0315047P.
2001US-0324928P.
2001US-0330462P.
2001US-0330867P.
                                                                                                                                                                                                                                                                     2001US-0292335P.
2001US-0297523P.
2001US-0298925P.
2001US-0303807P.
2001US-0303808P.
                                                                                                                                                                                                                                                                                                                                                             2001US-0331805P.
2001US-0336144P.
                                                                                                                                                                                                                                                                                                                                                                                         2002US-0357842P.
2002US-0357843P.
2002US-0357844P.
                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0364134P.
                                                                                               DNA; 2497
                                                                                                                                                                                                                                                     22-MAY-2002; 2002WO-US016173
                                                                                                                                                                                                                                                                                                                                                                                2001US-0340873P
                                                                                                                                                                                                                                                                                                                                                                                                                              2002US-0370144P
                                                                                                                                                                                                                                                                                                                                                                                                                                      2002US-0370206P
                                                                                                                                                                                                                                                                                                                                                                                                                                               2002US-0370247P
                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002US-0372794P
2002US-0371679P
                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mendrick D, Porter M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                profile to a database.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-148464/14.
                                                                                               standard;
                                                                                                                                                                                                Rattus norvegicus
                                                                                                                                                                                                                  WO200295000-A2.
                                                                                                                                                                                                                                                                              13 - JUN - 2001; 2
19 - JUN - 2001; 2
10 - JUL - 2001; 2
10 - JUL - 2001; 2
10 - JUL - 2001; 2
27 - SEP - 2001; 2
27 - SEP - 2001; 2
27 - SEP - 2001; 2
21 - NOV - 2001; 2
10 - DEC - 2001; 2
21 - FEB - 2002; 2
15 - MAR - 2002; 2
08 - APR - 2002; 2
08 - APR - 2002; 2
08 - APR - 2002; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-APR-2002;
21-APR-2002;
                                                                                                                                                                                                                                                                       22-MAY-2001;
                                                                                                                                   26-JUN-2003
                                  1741
                                                                                               ABT42207
                                                                                                                 ABT42207
                                                                              RESULT 15
                                                                                       ABT42207
                요
                                                                                                         ò
                                                 셤
ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1620
                                                                                                                                                                                                         1007
                                                                                                                                                                                                                                             1067
                                                                                                                                                                                                                                                             1080
                                                                                                                                                                                                                                                                                                 1140
                                                                                                                                                                                                                                                                                                                                     1200
                                                                                                                                                                                                                                                                                                                                                      1247
                                                                                                                                                                                                                                                                                                                                                                        1260
                                                                                                                                                                                                                                                                                                                                                                                         1307
                                                                                                                                                                                                                                                                                                                                                                                                           1320
                                                                                                                                                                                                                                                                                                                                                                                                                            1367
                                                                                                                                                                                                                                                                                                                                                                                                                                              1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1680
                                                                                                                                                                                                                          AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                               1127
                                                                                                                                                                                                                                                                                                                   1187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1727
         99
                         707
                                           720
                                                           767
                                                                             780
                                                                                               827
                                                                                                                 840
                                                                                                                                  887
                                                                                                                                                    900
                                                                                                                                                                      947
                                                                                                                                                                                       AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC 960
                                                                                       948 AACAGTGCAACATGATCAATGGTACTGCCGGGCAGATGTGGGCACCATTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                  CCTTGTTCCTAGACATCCACCGGTCACTGGGATCCCCATGAACTGTTCCGTGAAGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGCCTTTATGAACCGCACGGTTGGTGAGATCCTGTGGGGCTACGAAGATCCCTTTGTGA
                                                                             ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG
                                                                                                                TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                  GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                     CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                  AAAATGTCAGCACTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTTCTACA
                                                                                                                                                                                                                                                                                                                                                     AGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCTGTTTCTCTCCCAGCCCCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                      ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                             AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGGGCTGGGCGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATGCTTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                          CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                        648
                                         661
                                                           708
                                                                             721
                                                                                                                                828
                                                                                                                                                   841
                                                                                                                                                                    888
                                                                                                                                                                                      901
                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                           8001
                                                                                                                                                                                                                                                             1021
                                                                                                                                                                                                                                                                               1068
                                                                                                                                                                                                                                                                                                1081
                                                                                                                                                                                                                                                                                                                 1128
                                                                                                                                                                                                                                                                                                                                    1141
                                                                                                                                                                                                                                                                                                                                                     1188
                                                                                                                                                                                                                                                                                                                                                                       1201
                                                                                                                                                                                                                                                                                                                                                                                         1248
                                                                                                                                                                                                                                                                                                                                                                                                           1261
                                                                                                                                                                                                                                                                                                                                                                                                                           1308
                                                                                                                                                                                                                                                                                                                                                                                                                                             1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1668
       601
                                                                                               768
                                                                                                               781
                      g
                                         8
                                                       셤
                                                                            ઠે
                                                                                             셤
                                                                                                              ð
                                                                                                                               셤
                                                                                                                                                                   g
                                                                                                                                                                                     ò
                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                         ď
                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                  ઠે
                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
```

```
1728 TGTAGGCCCCAGAAGACACCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCGC 1787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel method of predicting at least one toxic effect of a compound. The method comprises a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the gene expression profile to a database comprising at least part of the data or information given in the specification. The methods are useful for predicting at least one toxic effect of a compound, predicting the progression of a toxic effect of a compound, predicting the renal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Predicting at least one toxic effect of a compound, useful for toxicity modeling, comprises preparing a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the gene expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Toxic effect, gene expression profile, renal toxicity, toxicity marker, database, drug screening, toxicity assay, rat, ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Elashoff
                                                                                                                                                                   CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACA 1783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Castle A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID No 1909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Higgs
```

```
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                        AGCCTCGGCTTCTGTCATCTCTGTGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                  360
                                                                                                                                                                                                                                                                                                                                                                                                                                                        407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAAGATCCACCTGGTGGACAGATGGGCTCAGCAAGGTCAACTACTGGCATTCAG 900
                                                                                                                                                                                                                  111
                                                                                                                                                                                                                                                                 167
                                                                                                                                                                                                                                                                                                              227
                                                                                                                                                                                                                                                                                                                                                            287
                                                                                                                                                                                                                                                                                                                                                                                                           347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 587
                                                                                                                                                                                           9
toxicity of a compound, or identifying toxicity markers in tissues or cells exposed to known renal toxin. The genes are useful as toxicity markers in drug screening and toxicity assays, in monitoring disease or physiological states, or disease progression. This polynucleotide represents a rat DNA sequence relating to the toxic effect database described in the specification. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the World Intellectual Property
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGGCCTTTATGAACCGCACGGTTGGTGAGATCCTGTGGGGGCTACGAAGATCCCTTTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTITIATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                    ---CTCGGTTTCTGTCATCTCTGTGGCCTCCGTCGCCCTCTGTCGCGT---
                                                                                                                                                                                                                                                                                                                                                                                   TCCTCGTGATGCCCTCGTCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                         Trereargerecercerearcaageageagerecreaagaargreegearagaeeeea
                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATACTGTGTGTCGTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGACAAGCCCACAAGCCTGAAGCTGCTAATGACCTTGGGGTTGGTCACCATGGGCCAGC
                                                                                                                                                                                                                                                                                       CCTGAGCCCCGCGAGCCCGCACACGCGGACATGGGCGGCAGCGCCAAGGGCGCGCTT
                                                                                                                                                                                                                                                                                                             GGGTGGCGGTGGGCGTCGTGGGGCTGCTGTGCGTGTGCTCGGTGTGTATGA
                                                                                                                                                                                                                                                                                                                                                            GGGTGGCCTTGGGGCTGGGCTTCTAGGGCTGCTGTGTGCTGCGCCTCGGCGTTATCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                    Gaps
                                                                                                                                                                    11;
                                                                                                                                                                                                                  GCCACCTGCAGGCTACTGCTCTGGCCACTGTCAGGCACACACCTTGCTG
                                                                                                                                             Length 2497;
                                                                                                                      U; 0 Other;
                                                                                                                                                                   Indelg
                                                                                                                                           Score 1413; DB 10;
Pred. No. 0;
0; Mismatches 205;
                                                                                                                      G; 555 T; 0
                                                                                                                    Sequence 2497 BP; 549 A; 731 C; 662
                                                                                                                                         Query Match 79.0%;
Best Local Similarity 87.9%;
Matches 1567; Conservative
                                                                                              Organization
                                                                                                                                                                                           Н
                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                              168
                                                                                                                                                                                                                                                                                                                                                            228
                                                                                                                                                                                                                                                                                                                                                                                                           288
                                                                                                                                                                                                                                                                                                                                                                                                                                                        348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                  53
                                                                                                                                                                                                                                                               112
                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
   8889888888888
                                                                                                                                                                                         8
                                                                                                                                                                                                         ď
                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                         용
                                                                                                                                                                                                                                                                                                                                    8 3
                                                                                                                                                                                                                                                                                                                                                                            8 8
                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8 8
```

1440 1067 1140 1187 1247 1307 1320 1367 1380 1487 1560 1607 1620 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGCCAAGC 1680 960 947 Aacadrecaacarearcaareeracrecceeccaerereccarreareacecee TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1428 TAGTCCTGCCAFTGCTGTGGTTCGAACAGAGCGGATGATGGGTGGCAGAGACCCTGAACA AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG AATCCTCACTGGAATTCTTCAGCCCAGAAGCCTGCAGATCTATGAAGCTCACCTACCAGG CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCGTGCCTTGAATCCGGCATTC CCAACGGGTCCGTCTACCCACCTAATGAAGGCTTCTGCCCGTGCCGCGGGTCCCGCCATTC ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT ATGCTGACCCCGTGCTGTCAGAAGCTGTTCTTGGTCTGAACCCTGACCCAAAGGAGCATT CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTGTGAAGTTGC CCTTGTTCCTAGACATCCACCCGGTCACTGGGATCCCCATGAACTGTTCCGTGAAGATGC AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG | TGGTCCTCCCATTGCTGTGGTTGAGCAGCGGTGCCATGGGCGGCGAGCCCTGAACA TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGAAA **AATGCTTTTTATTTTGGAGTGGTAGTAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG** 1668 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTACTGCAAGAAGCCAAGC ATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCCTAAAACTTTGTTTTG **AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA** CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 23, 2006, 18:39:34 Search completed: February Job time : 1086.41 secs 1248 1368 1741 1788 948 1008 1021 1068 1001 1128 1141 1188 1201 1261 1321 1381 1441 1488 1501 1561 1608 1621 1681 901 961 1308 g g 셤 유 ò 셤 8 셤 **6 B 6** a 8 8 g ਨੇ g 8 ઠે ò g 8 g ઠે 유 ò 셤 ò ઠે

us-08-765-108-3.rst

23 577.4 32.3 771 1 A1037 24 577.4 32.3 792 7 CK128 25 576 32.2 814 2 B1249 26 574.6 32.1 830 2 BG519 27 570.2 31.9 794 3 B1327	567.8 31.8 765 7 562.4 31.5 824 2 561.4 31.4 824 2 561.2 31.4 819 7	561 31.4 844 7 560.4 31.3 868 6 560.2 31.3 1036 1 558 31.2 1046 1	557.8 31.2 1016 5 556.6 31.1 918 5 553.2 30.9 837 7	552.8 30.9 836	550.6 30.8 830 8 548 6 30.8 830 8	548 30.6 790 7	<b>AL</b>	AK028191 AK028191 LOCUS DEFINITION MUS MUSCULUS 10 days embry DEFINITION MUSCULUS 10 days embry enriched library, clone:26 B1, full insert sequence. ACCESSION AK028191.1 GI:26389859 KEYWORDS AK028191.1 GI:26389859 KEYWORDS HTC; CAP trapper. SOURCE MUSCULUS (house mouse) ORGANISM BURSCULUS BURARYOCTA; EUTHERIA; EUARCH	REFERENCE 1 AUTHORS Carninci, P. and Hayashizak TITLE High-efficiency full-lengt TOTRNAL Meth Enginen 302 19-44	10349636 2 Carninci, P.	Itoh, M., Konno, H., Okazaki TITLE Normalization and subtract		KEFEKENCE 3 AUTHORS Shibata, K., Itoh, M., Aizaw Konno, H., Akivama, J., Nish	Sumi, N., Ishii, Y., Nakamur Yamamoto, R., Matsumoto, H., Pujiwake, S., Inoue, K., Too	Yoneda,Y., Ishikawa,T., Oz. Okazaki,Y., Muramatsu,M., TITLE RIKEN integrated sequence		The RIKEN Ge FANTOM Conso	JOURNAL Nature 409, 685-690 (2001) REFERENCE 5 AUTHORS The FANTOM Consortium and
on Ltd.	7293.62 Seconds ments) ion cell updates/sec	CTCTCTCAGCGGACAGTCGC 1788			82156650				nce to have a ult being printed, ibution.		Description	AK033114 Mus muscu AK010622 Mus muscu	Artices Mus muscu CR607701 full-leng BC022087 Homo sapi	AY412680 Homo sapi AY412681 Pan trog1 BU517714 AGENCOURT	B1651436 603298176 BM553238 AGENCOURT BQ917716 AGENCOURT	BI218548 602938062 BQ877329 AGENCOURT BI410841 602963757	BASSB0731 BGB70423 AGENCOURT BD670423 AGENCOURT BI854754 603381709	AL54291 AL542591 BI872207 603396535 BX335046 BX335046
GenCore version 5.1.7 Copyright (c) 1993 - 2006 Biocceleration Ltd	February 23, 2006, 17	Title: US-08-765-108-3 Perfect score: 1788 Sequence: 1 GCCACCTGCAGGCTACTGCCTCTCAG	Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0	earched: 41078325 seqs, 23393541228 residues	Total number of hits satisfying chosen parameters:	Minimum DB seq length: 0 Maximum DB seq length: 200000000	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	Database : EST:*  1: gb_est1:* 2: gb_est2:* 4: gb_lc:* 5: gb_est3:* 6: gb_est4:* 7: gb_est5:* 8: gb_est5:* 9: gb_gss1:* 10: gb_gss2:*	Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.	\$ Query	Score Match Le	1423.2 79.6 2441 4 1215 68.0 2310 4	986.4 55.2 2515 4 974 54.5 2751 4	949.6 53.1 1364 10 821.4 45.9 1364 10 681.2 38.1 902 5	678.6 38.0 879 677.6 37.9 1088 652.2 36.5 979	624.8 34.9 968 5 606.8 33.9 987 3	17 603-3 33-7 1102 3 55.500791 18 600.8 33.6 913 5 BQ670423 19 600.4 33.6 983 3 BI854754	586.8 32.8 1115 582.2 32.6 1046

A1037085 ue19b11.y	CK128415 AGENCOURT	BI249128 602992465	BG519503 602577778		BI159464 602919988	CK031774 AGENCOURT		BG921302 602824148	CK023231 AGENCOURT	CO403546 AGENCOURT	CA454474 AGENCOURT	AL537940 AL537940	AL531865 AL531865	BX399796 BX399796	BQ947347 AGENCOURT	CO395497 AGENCOURT	CF132055 UI-HF-FQ0	AL524030 AL524030	BG720535 602691681	CX788950 HESC3 104	BX336953 BX336 <u>9</u> 53	CO398599 AGENCOURT
A1037085	CK128415	BI249128	BG519503	BI327672	BI159464	CK031774	BI915510	BG921302	CK023231	CO403546	CA454474	AL537940	AL531865	BX399796	BQ947347	CO395497	CF132055	AL524030	BG720535	CX788950	BX336953	CO398599
1 1	792 7			34 3							9 89	1 9	1 9	9			-	14 1		8 0	3.5	7 0
77	75	81	830	75	8	76	82	8	819	84	898	1036	1046	101	918	83	83	1084	87	83	1043	79
32.3	32.3	32.2	32.1	31.9	31.8	31.8	31.5	31.4	31.4	31.4	31.3	31.3	31.2	31.2	31.1	30.9	30.9	30.9	30.9	30.8	30.7	30.6
577.4	577.4	576	574.6	570.2	568.4	567.8	562.4	561.4	561.2	561	560.4	560.2	558	557.8	556.6	553.2	552.8	552.8	552.4	9.055	548.6	548
23	24	25	56	27	28	59	30	31	32	33	34	32	36	37	38	39	40	41	42	43	44	45

## LIGNMENTS

uizawa,K., Nagaoka,S., Sasaki,N., Carninci,P., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Ramura,S., Hazama,M., Nishine,T., Harada,A., H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., M., Inoue,Y., Kira,A. and Hayashizaki,Y. M., Inoue,Y., Kira,A. and Hayashizaki,Y. H., 384 multicapillary sequencer 4497 bp mRNA linear HTC 03-APR-2004 cyo whole body cDNA, RIKEN full-length 0610205L15 product:scavenger receptor class Hayateu,N., Sugahara,Y., Shibata,K., i,Y., Muramatsu,M. and Hayashizaki,Y. tion of cap-trapper-selected cDNAs to 11braries for rapid discovery of new genes 7-1630 (2000) data; Craniata; Vertebrata; Buteleostomi; chontoglires; Glires; Rodentia; irinae; Mus. ion Research Group Phase II Team and the a full-length mouse cDNA collection () aki,Y. gth cDNA cloning 4 (1999)

the RIKEN Genome Exploration Research

```
GCCACCTGCAGGGCTACTGCTGCTCCGGCCACGCCAGGCACCACCCTTGCTGCTGAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         666
                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         781
                                             61
                                                                                                                           121
                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                g
                                                                                                                                                            셤
                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                         ò
                                                                                                                         ð
Group Phase I & II Team.

Analysis of the mouse transcriptome based on functional annotation of 60,710 full-length cDNAs

Nature 420, 563-573 (2002)

E (bases 1 to 2497)

S Adachi,J., Alaxwa,K., Akimura,T., Arakawa,T., Bono,H., Carninci,P., Fukuda,S., Furuno,M., Hangagki,T., Hara,A., Hashizume,W.,

Hayashida,K., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hirozane,T.,

Hori,F., Imocrani,K., Ishii,Y., Itoh,M., Kagawa,I., Kasukawa,T.,

Katoh,H., Kawai,J., Kojima,Y., Kondo,S., Konno,H., Kouda,M.,

Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Murata,M.,

Nakamura,M., Nishi,K., Nomura,K., Numazaki,R., Ohno,M., Ohsato,N.,

Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T.,

Sogabe,Y., Tanama,M., Tagawa,A., Takahashi,F., Takaku-Akahira,S.,

Takada,Y., Tanaka,T., Tomaru,A., Toya,T., Yasunishi,A.,

Muramateu,M. and Hayashizaki,Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFS
PEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTC
RFGAPLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPLSTFYTQLVLMPQVLHYAQYVLLG
LGGLLLLVPIICQLRSQEKCPLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQBAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ä
                                                                                                                                                                                                                                                                                                                                                          Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suchiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /tissue_type="whole body"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /trānslation="MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNV
RIDPSSLSFGWWKEIPVPFYLSYYFFEVVNPWENTLMGQKEVVRERGPYYREFRQKVN
ITFNDNDTVGFVENRSLHPFPLSYNFFERGSEDY IVLPNILVLGGSILMESKPVSLKLMMT
LAALVTWGQRAPWNRTYGEILMGYDDPFYHFLNTYLPDMLPIKGKFGLFVGMNSNSGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Please visit our web site for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="unnamed protein product; putative
scavenger receptor class B1 (MGD|MG1:893578, GB|NM_016741,
evidence: BLASTN, 100%, match=2496)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 4; Length 2497;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          208;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mol_type="mRNA"
/errain="C57BL/6J"
/db_xref="PANTOM_DB:2610205L15"
/db_xref="taxon:10090"
/clone="2610205L15"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 80.6%; Score 1441.2; starity 88.3%; Pred. No. 0; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dev stage="10 days embryo"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /protein_id="BAC25802,1"
/db_xref="GI:26389860"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            URL:http://genome.gsc.riken.jp/
URL:http://fantom.gsc.riken.jp/
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      codon start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1, .2497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2477.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polyA_signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 1577;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polyA_site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
                                                             JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMMENT
```

```
1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCC 960
                                                                                                                                                  218
                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                       338
                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                           398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            458
AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   819 TTGGGATGAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       879 GCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCCGATACTCTGTTTG
                                                                                                                                                                                                                                                                                                                                                    279 recrearderecerecereareaacacacacacacaaaarerececaradaceea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             459 GTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    579 CAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        699 GIGCITITIAIGAACCGCACAGIIGGICAGAICCTGIGGGGCIAIGACGAICCTITCGIGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  841 GCAAGATCCACCTGGTGGACAGATGGACTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100 AGTCTCGGCTTCTGTCATCTCTGTGGCCTCCGTCACCTCTGTCTCCGT-CTCCTTCAGGT
                                                                                                                                                                                                                                                      399 TCTTCGAAGTGGTCAAACCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTTTATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                159 CCTGAGCCCCCAGAGAGCCCCTTCCGCGCACGCGGAATGGGCGGCAGCTCCAGGGCGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u> acaccerercerregaeaececaecrecarrirceaecereaeaercearesecr</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                   CCTGAGCCCCGCGAGCCCGCGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCT
                                                                                                                                                                                                       GGGTGCCGGTGGGCGTCGTGGGCCTGTGCCCTGTGCTCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                        TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCA
                                                                                                                                                                                                                                                                                                                                                                                                           GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
```

1119 ccaaceeerccercracccacccaaeeaaeerrcrecccareccaaeaercreecarrc

9

GCCACCTGCAGGGCTACTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG

8 .

유 8 셤 ઠે g ò ద ò 8 ò 셤 ò g ð 유

```
b (Dasses 1 Co. 2441)

S Adachi, J. Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizuwe, W., Fukuda, S., Furuno, M., Haramoto, K., Hiraoka, T., Hirozane, T., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imortani, K., Itoh, W., Kagawa, I., Kasukawa, T., Katch, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Oksachi, N., Sakai, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, B., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sagabe, Y., Taqami, M., Taqawa, A., Shinagawa, A., Shiraki, T., Sagabi, Y., Taqami, M., Taqawa, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y., Towaru, A., Toya, T., Yasunishi, A., Mirematsu, M. and Hayashizaki, Y., Toya, T., Yasunishi, A., Mirett Submission
Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsuncto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watshik, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y. sequencing pipeline with 384 multicapillary sequencer format Genome Res. 10 (11), 1757-1771 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RIDPSSLSFGMWKEI PVPPYLSVYFPEVVNPNEVLNGQKPVVRERGPYVYREFRQKVN
ITFNDNDTVSFVENRSLHFQPDKSHGSBSDYIVLPNILVLGGSILMSSKPVSLKLMMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'translation="MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Group Phase I & II Team.

Analysis of the mouse transcriptome based on functional annotation of 60,770 tull-length cDNAs

Nature 420, 563-573 (2002)

6 (bases 1 to 2441)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted. (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Sushiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222, Pax:81-45-503-9216)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note="unnamed protein product; putative
scavenger receptor class Bl (MGD|MGI:893578, GB|NM_016741,
evidence: BLASTN, 100%, match=2496)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The FANTOM Consortium and the RIKEN Genome Exploration Research
                                                                                                                                                                                                                                                                                                                                                                          The RIKEN Genome Exploration Research Group Phase II Team and
                                                                                                                                                                                                                                                                                                                                                                                                                               Functional annotation of a full-length mouse cDNA collection Nature 409, 685-690 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /tissue_type="testis"
/clone_lib="RIKEN full-length enriched mouse
/dev_stage="15 days embryo"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      prepare mouse tissues.
Please visit our web site for further details.
URL:http://gancome.gc.riken.jp/.
URL:http://fantom.gsc.riken.jp/.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. .2441
/organiam="Mus musculus"
/mol type="mRNA"
/strain="C57BL/6J"
/db_xref="FANTON DB:8030433C21"
/db_xref="TANTON"
/clone="8030433C21"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /codon_start=1
/protein_id="BAC28157.1"
/db_xref="G1:26328837"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                      FANTOM Consortium.
                                                                                                                                                                                                                                                                                                                 11076861
                                                                                                                                                                                                                                                                                                                 PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE
               AUTHORS
                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                               1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1418
                                                                                                                                                                                                                                                                                  1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AK033114 - 2441 bp mRNA linear HTC 03-APR-2004 Mus musculus 15 days embryo male testis cDNA, RIKEN full-length enriched library, clone:8030433C21 product:scavenger receptor class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Komo, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome Res. 10 (10), 1617-1630 (2000)
                                                                                             1179 agaargreageacergeaggringgrececercretrirerececececeaecrirriaea 1238
                                                                                                                                                                                                                    Acecceaccererereredaacererreregrereaacecraaceaaagaacarr 1298
                                                                                                                                                                                                                                                                                                                 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AATGCTTTTTATTTTGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1659 CCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGG 1718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1719 TATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCAC 1778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Euarchontoglires, Glires, Rodentia,
                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCTGAGCCTCTACATCTATCTGTCAAGGGCATCGGGCAAACAAGGGGAAGATCGAGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                               CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
TERZYMO1. 303, 19-44 (1999)
10349636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .2441 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HTC; CAP trapper.
Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    B1, full insert sequence. AK033114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AK033114.1 GI:26328836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AK033114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1599
                                                                                                                                                        1201
                                                                                                                                                                                                                    1239
                                                                                                                                                                                                                                                                               1261
                                                                                                                                                                                                                                                                                                                                          1299
                                                                                                                                                                                                                                                                                                                                                                                                      1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
TITLE
JOURNAL
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AK033114
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
```

RESULT

셤 ઠ 셤 ò g

ò

TITLE

1038

1080 1158 1278

1320 1398 1380

```
HTC 03-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2310 bp mRNA linear HTC 03-APR-200 cells cDNA, RIKEN full-length enriched library, product:scavenger receptor class B1, full insert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGGTAGTAAAAAGGGGCTCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAGAGCGGTGTAACATGATCA
                                                             ATGGGACTTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCT
                                                                                                TCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTGAAG
                                                                                                             GGTTTGGTGGCGCCTCTGTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTGT
                                                                                                                                                                                                                                                                                                             TECTEATECCCCAGGIACTICAGIATGIGCAGIATGIGCTGCTGGGGGGCGGCGCCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGCTGTAGGGTCCCAAAGACA
ACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCA
                                                ATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCCCAGTCCTCGCTGGAATTCT
                                                                                                                                                                                               CACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCA
                                                                                                                                                                                                                        cacccaaceaagecricieceareceaagreregearreagaarereagae
                                                                                                                                                                                                                                                 GGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGCTAT
                                                                                                                                                                                                                                                                                                                                                                       Arccegicaciescaricareaaciericiereaaaarecaecieaecereaecarea
                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGFTTGAGCAGAGCGGTGCCATGGGCGGCGCGCCCCTGAACACGTTCTACACGCAGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGAAATGCTTTTTATTTTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCTCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCATCCAGCCCCTACACCCCGC
                                                                                                                                                                                                                                                                                                 CAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATTCTTTGTTCCTTGACATCC
                                                                                                                                                                                                                                                                                                                                                 ATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATCA
                                                                                                                                                                                                                                                                                                                                                                                                  <u> AAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGT</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTCTTGAGGACTCTCTCAGCGGACAGCC 1768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GI:12846195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AK010622
Mus musculus ES c
clone:2410030L01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence.
AK010622
AK010622.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681
                        841
                                                                                                                                                 1039
                                                                                                                                                                       1021
                                                                                                                                                                                               1099
                                                                                                                                                                                                                         1081
                                                                                                                                                                                                                                                 1159
                                                                                                                                                                                                                                                                          1141
                                                                                                                                                                                                                                                                                                 1219
                                                                                                                                                                                                                                                                                                                          1201
                                                                                                                                                                                                                                                                                                                                                  1279
                                                                                                                                                                                                                                                                                                                                                                         1261
                                                                                                                                                                                                                                                                                                                                                                                                  1339
                                                                                                                                                                                                                                                                                                                                                                                                                         1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                1399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1741
 859
                                                919
                                                                        901
                                                                                                919
                                                                                                                        961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 3
AK010622
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
                  셤
                                               Š
                                                                  쉱
                                                                                                ઠે
                                                                                                                   g
                                                                                                                                             ð
                                                                                                                                                                ብ &
                                                                                                                                                                                                                   음 장
                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                상 . 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
          FTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPPMTPESSLEFFS
PRACKSMKLTYNESRVFEGIFTYRFTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTC
RFGAPLFLSHPHFYNADPVLSEAVLGINPNFKEHSLFLDIHPVTGIPMNCSVKMQLSL
RFGAPLFLSHPFTVADLYPLLWFGSGAMGGKPLSFFTQLJVLMPQVLHYAQYVLLG
LGGLLLLVPIICQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQGAK
 LALVTMGQRAFMNRTVGEILWGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGV
                                                                                                                                                                                     1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              828
                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                            138
                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                             198
                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                              258
                                                                                                                                                                                                                                                                                                                                                                                                             318
                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACTTCTTCGAGGTGGTCAATC 378
                                                                                                                                                                                                             78
                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCTCTGAGAGTGACTACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGTTGGTGAGATCCTGTGGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TACCAGACATGTTCCCCATCAAGGCAAGTTCGGCCTGTTGTTGAGATGAACAACTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTOTIGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATCCACCTGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTCTGGGGTCTTCACTGTCTTCACGGGGTCCAGAATTTCAGCAGGATCCATCTGGTGG
                                                                                                                                                                                                                                                                          CTTCCGCGCACACGACATGGGCGGCAGCTCCAGGGCGCGCTGGGTGGCCTTGGGGTTGG
                                                                                                                                                                                                                                                                                                                                                                          GCGCCCTGGGGCTGCTGTTGCTGCGCTCGGCGTTGTCATGATCCTCATGGTGCCCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCGTGTCCTTCGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGAAGCTGATGATGACCTTGGCGCTGGTCACCATGGGCCAGCGTGCTTTTATGAACCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGAATTTTTATCAACAAATACT
                                                                                                                                                                                                                                                                                                                                                                                                             TCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCAGCAGCCTGTCCTTTGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                           TCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCCGAGCAGCCTGTCCTTCGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATGATACTGTGTCCTTTGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TACTGCCTAACATTCTGGTCTTGGGGGGGGGCGCAGTAATGATGAGGAGCAAGTCTGCAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGCGTGCCTTTATGAACCGAA
                                                                                                                                                                                                                                      GCTGCTCCGGCCACCGCCACACACACCTTGCTGAGGGAGTCTCGGCTTCTGTCAT
                                                                                                                                                                                                                                                             CTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTCCCTGAGCCCCGCGAGCCC
                                                                                                                                                                                                                                                                                                             GGGCCGCACACGCGCACATGGGCGCCAGGCCCCAGGCGCGCTGGGTGGCGGTGGGCTGG
                                                                                                                                                                                                                                                                                                                                                              GCGTCGTGGGGCTGCTGTGCGCTGTGCTCGGTGTGGTTATGATCCTCGTGATGCCCTCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                     1,
                                                                                                                                                             Length 2441
                                                                                                                                                                                  208; Indels
                                                                                                                                                              4
                                                                                                                                                             OB
                                                                                                                                                          Score 1423.2; E
Pred. No. 0;
0; Mismatches 2
                                                                           4421. .2426
/note="putative"
2441
                                                                                                                        /note="putative"
                                                                                                                                                             79.6%;
                                                                                                                                                           Query Match 19.08 Best Local Similarity 88.2 Matches 1559; Conservative
                                                                                      polyA_signal
                                                                                                              polyA_site
                                                                                                                                                                                                                                                                                    62
                                                                                                                                                                                                                                                                                                             139
                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                              319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             619
                                                                                                                                                                                                             13
                                                                                                                                                                                                                                   ~
                                                                                                                                                                                                                                                            79
                                                                                                                                                                                                                                                                                                                                                              199
                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                             259
                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                            8 6
                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원 t
                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                            Š
```

1458

1440

1500

1578

1638

PUBMED

JOURNAL

TITLE

```
/procein_id="BAB27068.1"
/db_xref="G1:12846196"
/db_xref="G1:12846196"
/tb_xref="G1:12846196"
/tb_xref="G1:12846196"
/tb_mGGSFGGWWEITPUPFYLEVYFPEVVNPHEVLNGQKPVVRERGPYVYREFRQKVN
ITFNDNDTVSFVENRSLHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMT
                                                                                                                                                                                                                                                                                                                                                                                                                       /cell_type="RS cells"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
138. .1658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PEACRSMKLTYNESRVFEGI PTYRFTAPDTLFANGSVYPPNEGFCPCRESGI ONVSTC
RFGAPLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGI PMNCSVKMOLSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  YIKFVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPLSTPYTQLVIMPQVLHYAQYVILG
LGGLLLLVPIICQLRSQGPEDTISPPNLJAWSDQPPSPYTPLLEDSLSGQPTSAWA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LALVTMGQRAFMNRTVGE1LWGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GB NM 016741,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             79 CTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTCCCTGAGCCCCCGCGAGCCC 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421 GGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCCGTGTCCTTCGTGG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCTCTGAGAGTGACTACATTA 558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62 CTCTGTGGCCTCCGTCACCTCTGTCTCCGT-CTCCTTCAGGTCCTGAGCCCCGAGAGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           199 GCGTCGTGGGGCTGCTGTGCCTCTCGGTGTGGTTATGATCCTCGTGATGCCCTCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 GCGCCCTGGGGCTGCTGTTTGCTGCGCTCGGCGTTGTCATGATCCTCATGGTGCCCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 TCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCCGAGCAGCCTGTCCTTCGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361 CAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCTTATGTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 GCTGCTCCGGCCACCGCCAGGCACCACCTTGCTGCTGAGGGAGTCTCGGCTTCTGTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCAGCAGCTGTCCTTTGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    319 TGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACTTCTTCGAGGTGGTCAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      379 CCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGCGTGGACCTTATGTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 439 GGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATGATACTGTGTCTTTGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19 GCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTGAGCCTCGGCTTCTGTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 2310;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note="unnamed protein product; putative
scavenger receptor class B1 (MGD|MGI:893578,
evidence: BLASTN, 100%, match=2496)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       68.0%; Score 1215; DB 4;
87.3%; Pred. No. 7.2e-312;
live 0; Mismatches 195;
                                                                                                                                                                                                                                                                                                                 /db_xref="FANTOM_DB:2410030L01"
/db_xref="taxon:10090"
                                                                                                                                                                                                   /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                          /clone="2410030L01"
                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                        /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 87.3
Matches 1343; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polyA_signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polyA_site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CDS
                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .
සු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Komo, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome Res. 10 (10), 1617-1630 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN.

Genomic Sciences Center and Genome Science Laboratory in RIKEN.

Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand, cDNA was primed with a primer [5, GAGAGAGAGATCCAAGAGCTCTTTTTTTTTTTTTNN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIXEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Please visit our web site (http://genome.gsc.riken.jp/) for further
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation 6 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 2310)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunish, Y., Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F., Imchani, K., Ishi, Y., Itch, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomara, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, Y., Shibata, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagawa, A., Takahashi, F., Tanaka, T., Yoshino, M., Muramatsu, M. and Hayashizaki, Y., Yoshida, K., Shibata, Y., S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P. Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Mateumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J. Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y. sequencing pipeline with 384 multicapillary sequencer sequencer of sequencer (RISA) system --384-format
                                                                                                                  Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Buarchontoglires, Glires, Rodentia,
Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The RIKEN Genome Exploration Research Group Phase II Team and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The FANTOM Consortium and the RIKEN Genome Exploration Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Functional annotation of a full-length mouse cDNA collection Nature 409, 685-690 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cDNA library was prepared and sequenced in Mouse Genome
                                                                                                                                                                                                                                                                        Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
    HTC; CAP trapper.
Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FANTOM Consortium.
CAP trapper
                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                      .0349636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11042159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11076861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              detai
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                    REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
```

AUTHORS

JOURNAL

TITLE

REFERENCE

JOURNAL

TITLE

180

61

300

360 438 420

COMMENT

us-08-765-108-3.rst

ORGANISM Homo sapiens  Bikaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi  Manmalia: Pritharia: Priarchontodiiras. Drimatas. Catarrhini.	Hominidae, Homo. CE 1 (bases 1 to 2515) RS Li,W.B., Gruber, C.,	TITLE Full-length CDNA libraries and normalization JOURNAL Unpublished REWARK Contact: Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ InVitroGen Corporation 1600	Faraday Avenue REFERENCE 2 (bases 1 to 2515) AUTHORS Genoscope. TITLE Direct Submission	JOURNAL Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr/ 181 8178nd cNNA was primed with a Not1-clico(AT) primer Five prim	end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was constructed by Life Technologies, a division of Invitrogen of Invitrogen of Invitrogen of Invitrogen of Invitrogen	FEATURES Location/Qualifiers source 1. 2515 /organism="Homo sapiens" / mol type="mRNA"	/db_xref="taxon:9606" /clone="CS0DN004YM4" /tissue_type="Adult brain" /plasmid="pcNvSpORT 6"	55.2%; Score 986.4; DB 4; Length 251	Matches 1	36	96	156	234	276	Db 336 GACCCCAGTAGCCTGTCCATTCAACATGTGGAAGGAGATCCCTATCCCCTTCTATCTCTCTC	
421 CICCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTTTGTT	798 GACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATCCACCTGGTG 857 	858 GACAGATGGACTCAGCAAGGTCAACTACTGGCAITCAGAGCAGTGCAACATGATC 917 	918 AAIGGCACTICCGGCAGAIGIGGGCACCAITCAIGACACCCCAGICCTCGCIGGAAITC 977	978 TTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATGATTCAGGGGGTGTTTGAA 1037 	GGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTTG	777GC 	1158 AGGTTTGGTGCACCCTGTTTCTGTCACACTCTCTACAATGCAGACCCTGTGCTA 1217	1218 TCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGGGCATTCTTTGFTCCTTGACATC 1277 	1278 CATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATC 1337	1338 AAAGCTGTCAAGGGCATTGGGGAAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTG 1397 	1398 TGGTTTGAGCAGAGGGGTGCCATGGGCGGAGCCCCTGAACACGTTCTACACGCAGCTG 1457 	1458 GTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGGGGCTGGGCGGCCTC 1517 	1518 CTGCTGCTGGTGCCGTCATCTACCAGTTGCGCAGGAGAAATGCTTTTTATTTTGG 1577 	1578 AGTGGTAGTAAAAAGGGTTGGCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCTCTG 1637 	1638 ATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGGT 1681 	F. HISAA

```
GCCTCGGCTTCTGTCATCTCTGTGCCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          516 AACAACGACGCGTGTCCTTCCTCGAGTACCGCACCTTCCAGTTCCAGCCCTCCAAGTCC 575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGAGCCCCCCCCCCAGCCCCGGG-----CCCCCACACGCCGACATGGGCGCCAGCGCCAGG 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGGAGCCCTGCGAGCCGCGGGGTGGCCCCCAGGCGCGCAGACATGGGCTGCTCCGCCAAA 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTATGATCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATA 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rcardarcergarderecercercarcardadeaceaecrecraagaacerecerc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGAAGGAGATCCCTGTACCTTCTACTTGTCC 353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCTACTTCTTTGACGTCATGAACCCCAGCGAGATCCTGAAGGGCGAGAAGCCGCAGGTG 455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGCGCTGGGGTGGGGCTGGGCGTCGTGGGCTGTGCGCTGTGCTCTCGGTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cciaccireccesecrecrecrececrececrecerecesisces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       recensecesas de contrator de con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAAGGGTGAGAAGCCAGTAGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   474 GACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGGCCGGACAGGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         55.2%; Score 986.4; DB 4; Length 2515; 77.4%; Pred. No. 5.7e-251; Live 0; Mismatches 346; Indels 7;
1.2515
/organism="Homo sapiens"
/mol_type="mRNA"
/db_Xref="taxon:9606"
/clone="CSODNO04YM24"
/tissue_type="Adult brain"
/plasmid="pcMvSPORT_6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
```

CR607701 2515 bp mRNA linear HTC 21-JUL-2004 full-length cDNA clone CS0DN004YM24 of Adult brain of Homo sapiens

CR607701 CR607701.1 GI:50488508 HTC; CNSLT CDNA. Homo sapiens (human)

ACCESSION VERSION KEYWORDS SOURCE

(human)

DEFINITION

```
VERSION
KEYWORDS
SOURCE
ORGANISM
                 LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                          ACCESSION
                                                                                                                                                                                        AUTHORS
                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
    3C022087
                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAACTGCAGCTGAGCCTCTACATGAAATCTGTCGCAGGCATTGGACAAAACTGGGAAAATT 1415
                                                                                                                                                                                                                                                                                                                                                                                       954 ACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACC 1013
                                                                                                                                                                                                                                                                                                                                                                                                         TACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACT 1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1074 TTGTTTGCCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCC 1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGAATTCAGAACGTCAGCACCTGCAGGTTCAGTGCCCCCTTGTTTCTCTCCCCATCCTCAC 1235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rrccrcaacecreaceceerrcrescaeaaeceereacrescerecerecereaeceaea 1295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1296 GCACACTCCTTGTTCCTGGACATCCACCCGGTCACGGGAATCCCCCATGAACTGCTCTGTG 1355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATC 1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCCGGCGAGCCC 1433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTAT 1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTGCTGCTGGGGGCTGGGCGGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGC 1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Grechechecechecerederechechechechechenechanceaaarceaade 1595
                                                                                                                                                                                                                                                                                                      935
                                                                                                                                                                                                                                                                                                                                                  635
                                             653
                                                                         695
                                                                                                     713
                                                                                                                                755
                                                                                                                                                            773
                                                                                                                                                                                        815
                                                                                                                                                                                                                  833
                                                                                                                                                                                                                                             875
                                                                                                                                                                                                                                                                         893
                                                                                                                                                                                                                                                                                                                                 894 CATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATG 953
CACGCTCGGAGAGCGACTACATCGTCATGCCCAACATCCTGGTCTTGGGTGCGGCGGTG
                                                                                                                                                                                                                                  816 TIATTIGCTGAGGTCAACAACTCCGACTCTTGAGGGTGTTCACGGGGGTCCAG
                                                                                                                                                                                                                                                                                         594 ATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTG
                                                                        Argardeadaanaadcccargacccreaadcrcarcareaccrreecarreacaccacccrc
                                                                                                                                GGCGAACGTGCCTTCATGAACCGCACTGTGGGTGAGATCATGTGGGGGCTACAAGGACCCC
                                                                                                                                                            TTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGC
                                                                                                                                                                                      756 CTTGTGAATCTCAACAACAAGTACTTTCCAGGCATGTTCCCCTTCAAGGACAAGTTCGGA
                                                                                                                                                                                                                                                                          AACTICAGCAAGAICCACCIGGIGGACAGAIGGAAIGGGCICCAGCAAGGICAACIACIGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTG
                                                                                                                                                                                                                  CTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAG
                                                                                                    GCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGTATGAGGATCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAAG 1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGG 1557
                                                                                                                                                                                                                                                                                                     876
                                                                                                                                                                                                                                                                                                                                                                                                                                              1014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1374
                                                                         989
                                                                                                                                969
                                                                                                                                                            714
                                                                                                                                                                                                                 774
                                                                                                                                                                                                                                                                         834
                                                                                                                                                                                                                                                                                                                                                             936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1554
                                                                                                    654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                            ò
                                                                      a
                                                                                                    à
                                                                                                                        셤
                                                                                                                                                         ઠ
                                                                                                                                                                                     셤
                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
```

RESULT

```
Mammaliae, Bulleria, Mulleria, Mammaliae, Homo.

E 1 (bases 100.2751)

S Straubserg, R.L., Feligold, B.A., Grouse, L.H., Derge, J.G., Schuler, G.D., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altechul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hokkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Ubdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Mosak, S.A., McEwan, P.J., Malek, J.A., Gunaratne, P.H., Richards, S., Morfey, K.C., Male, S., Garcia, A.M., Gay, L.J., Hulyk, S.M., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E.; Ketteman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Soherutz, J., Myers, R.D., Boutfeard, G.G., Blakesley, R.W., Touchman, J. W., Green, E.D., Dickson, M.C., Schein, J.E., Jones, S.J. and Marra, M.A. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Clone distribution: MGC clone distribution information can be found
linear HTC 01-APR-2004 member 1, mRNA (cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAL Plate: 10 Row: m Column: 20
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 21361199
This clone has the following problem: retained intron.
                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Straubberg, R.
Direct Submission
Submitted (22-JAN-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbiology.org
context: amadamsgystemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54.5%; Score 974; DB 4; Length 2751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /tissue type="Muscle, rhabdomyosarcoma"
/clone lib="NIH MGC_17"
/lab host="DH10B-R"
BC022087
Homo sapiens scavenger receptor class B, membe IMAGE:3010672), with apparent retained intron.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs.r@mail.nih.gov
Tissue Procurement: ArC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .2751
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3010672"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="Vector: pOTB7"
                                                                                                                                                                BC022087.1 GI:18314599
                                                                                                                                                                                                                                          Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (bases 1 to 2751)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGIN
```

1120   CAGAACGTCAGCAGGTTCAGTGCCCCTTGTTTCTCTCCCATCCTCCTCTCTCT	DB 1240 TCCTTGTTCCTGGACATCCGGTCACGGGAATCCCCATGAACTGCTCTGTGAAACTG 1299  Qy 1320 CAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGCCAAACAGGGAAGATCGAGCCC 1379  DB 1300 CAGCTGAGCTCTACATGAAATCTGTCGCAGGCATTGGACAAACTGGGAAAGATTGAGCCT 1359	Qy         1380         GTGGTCCTCCCATTGCTGTGTTTGAGCGGGGGGGGCGGGGGGGCCCTGAAC         1439           1360         GTGGTCTGCCGCTGCTCTGGTTTGCAGAGGGGGCCCATGGAGGGGGGAGACTCTTCAC         1440         ACGTTCTACAGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1420 ACTICIACACACACACACACACACACACACACACACACAC	Db 1480 CTGGCGCTGGCTGCTGCTGCTGCTCTGCCAAATCCGAAGCCAAG 1537	RESULT 7 AY412680 LOCUS AY412680	genomic survey sequence. AY412680.1 GI:39768645	rdata, Craniata, Vertebra	Hominidae; Homo. REFERENCE 1 (bases 1 to 1364) AUTHORS Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A.,	JOUL, M.A., BELFIELDAND, C. VELLO, D.K., DU.F., MILENY, D., FORTIGER, S., WAND, G., Zheng, X.H., White, T.J., Shinsky, J.J., Adams, M.D. and Cargill, M.  TITLE Inferting nonneutral evolution from human-chimp-mouse orthologous	963 (2003)	AUTHORS CLarx, A.G., Canowski, S., Naclson, K., Inomas, P., Kejarrwai, A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.	TITLE Direct Submission JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive, ROCKVILLE, MD 20850, USA COMMENT This sequence was made by sequencing genomic exons and ordering		/mol_type="genomic_DNA" /db_xref="taxon:9606" <1>1364 /gene="SCARB1"	/locus_tag="HCM4638"  ORIGIN  Query Match 53.1%; Score 949.6; DB 10; Length 1364;  Best Local Similarity 81.0%; Pred. No. 3e-241;  Matches 1105; Conservative 0; Mismatches 259; Indels 0; Gaps 0;
Best Local Similarity 79.8%;   Pred. No. 1.2e-247;   Indels 0;   Gaps 0;   Matches 1147;   Conservative 0;   Mismatches 291;   Indels 0;   Gaps 0;   CCTGAGCCCGCGAGGCCGCAGGGCCGCAGGGCGCGCGCGC	160 TGGGCTGCCGGGGCGTGCGCGGGGCTGTGTGTGTGTGGGGGG	AGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTAC	TTCTTCGAGGTGGTCCAACCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAG 	CGTGGACCCTATGTCTACAGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAAT 	480 GATACTGTCTCTTTGTGGAGCACCCCCGTTTTCCAGCGGACAGGTCCCAGGG 539	540 TCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGG	600 GAGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAG 659	660 CGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTG 719	720 AAITTTAICAACAAATACTTACCAGACAIGTTCCCCAICAAGGGCAAGTTCGGCCTGTTT 779	780 GTTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGCGTCCAGAACTTC 839	840 AGCAAGATCCACCTGGTGGACAGATGGATGGCTCAGCAACTACTAGGATTCA 899	900 GAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCC 959	960 CAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCAT 1019	GATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTT 	1080 GCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATT 1139

us-08-765-108-3.rst

QY         1518 CTGCTGCTGGTCCCGTCATCTACCAGTGCCAGCCAGGAGAAATGCTTTTTTTT	RESULT 9 BU517714 BU51714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU51	DNA Sequencing by: Agenciant Corporation  Clone distribution: MGC clone distribution information can be found through the 1.M.A.G.E. Consortium/Link at:  thtp://image.lin.gov  Plate: LiaM14092 row: b column: 03  High quality sequence stop: 700.  FEATURES  1. 902  //Oality sequence from: "No."  //mol_type="mans musculus" //mol_type="mans" //mol_type="mans" //db xref="taxon:1000" //lshe="type="type="type="type="type="type" //lshe="type="type="type" //lshe="type="type="type="type="type" //lshe="type="type="type" //lshe="type="type="type="type="type="type="type="type="type" //lshe="typ	Action   A
438 AGGGAATTCAGACATAAGGCCAACATCACTTCAATGACAATGATGATGTTGTTTTGTG 497	618 CTGAAGCTGATGATGACCTTGGGCCACCTTGGGCCAGCTGTATTGAACCGA 677 301 CTGAAGCTCATCATGACCTTGGCCACCTTGGGCAACTTCATGAACCGC 360 678 ACAGTTGGTGAGATCCTTGGGGCTATGAGGATCCTTCATGAACTGC 360 678 ACAGTTGGTGAGATCCTTGGGGCTATGAGGATCCTTTTATCAACAAATAC 737 1	601 ATGGAACTTCTGGCCAATGTGCCCGCCTTCATGACTCCTCAGGTCTCGCTGGTTTCAA 660 978 TTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCCTCAGGTCTTCAGGGGTGTTTGAA 1037 61 TACAGCCCTGAGGCCTGCAGGTCTATGAAGCTCCCTACCATGATTCAGGGGTGTTTGAA 1037 61 TACAGCCCTGAGGCCTGCCGNNNNNNNNNNNNNNNNNNNN	841 NNNNNNNGGCCCCTTGTTTCTCCCATCCTCACCTCCACCCCACC

рę

셤 δ 요 8 요 ઠે 셤 Š

```
/organiam="Mus musculus"
/organiam="Mus musculus"
/mol type="mRNA"
/strain="129, CS7BL/6J, FVB/N"
/db. refe="taxon:10090"
/clone="INAGE:533875"
/tissue_type="tumor, gross tissue"
/dev_tage="tumor, gross tissue"
/dev_tage="tumor, gross tissue"
/dev_tage="tumor, gross tissue"
/dev_tage="tumory"
/dev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1537 TCTACCAGTTGCGCAGCCAGGAGAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCT 1596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541 CAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 GGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 GGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1417 CCATGGGCGGCGAGCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTCAGTATGTGCAGTATGTGCTGCTGGGCGGCCGCCCTCCTGCTGCTGCTGCTGCCCGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCCGTGCCTTGAATCCGGCATTCAAATGTCAGCACTTGCAGGTTTGGTGCACCCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1177 ITCTGTCACACCCCTCACTTCTACAATGCAGACCCCTGTGCTATCAGAAGCCGTTCTGGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301 TTCTCTCCCACCCCACTTTTACAACGCCGACCTGTGTTGTCAGAAGCTGTTCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 CCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             937 TGTGGGCACCATTCATGACACCCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGT
Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at: http://image.lnh.gov
Plate: LLAM11860
Plate: LLAM11860
High quality sequence stop: 819.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 678.6; DB 3;
Pred. No. 4.2e-169;
0; Mismatches 109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 38.0%;
al Similarity 87.2%;
768; Conservative
                                                                                                                                                                         1. .879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1117 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Loca
Matches
                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       B19 bp mRNA linear BST 12-SEP-2001
603298176F1 NCI_CGAP_Mam3 Mus musculus CDNA clone IMAGE:5338795 5',
mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1245 GACCCAAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAAC 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCAT-TGGGCAAAC 1363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCC 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CACCCCCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCT 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                       240
                                                                                                                                              824
                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                          884
                                                                                                                                                                                                                                                                                                                                                                         944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
Mus musculus
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Buarchontoglires, Glires, Rodentia,
Sciurognathi, Muroidea, Muridae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Lochar Hennighausen Ph.D., Chu-xia Deng Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
                                                                                                                                                                            AAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGCTCTTCACTGTCTTCACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGTTCTGTGGAGATGCAGCTGAGGCCTCTACATCAAATCTGTCAAGGCCATCGGGGCAAAC
                                                                GACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGC
                                                                                                                                                                                                                                                          GGCGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGGATTGGGCTCAGCAAGGTC
                                                                                                                                                                                                                                                                                          885 AACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCCAGATGTGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                         361 GATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAGCTCACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481 AAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cccanacicráriraccaacaancearcraraccaaccaacaacaaaacrircraccarac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTGAATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CACCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCT
                                GAGGATCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGC
                                                                                                                                              AAGTTCGGCCTGTTTGTTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         I (bases 1 to 879)
NIH-MCC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1364 AGGGAAGATCGAGCCCGTGGTCCTCCC 1390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BI651436.1 GI:15565672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1305
                                                                                       181
                                                                                                                                              765
                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                          825
                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BI651436
```

ď

ઠે g ò 셤

8 8 ઠે

음

8

유

셤 ò В

8

1176

1116

1056

936

Gaps

4 879;

Length Indels

966 9

180

1236

360

300

1296

420

1356

480

1416

1476

 		qa	61 CTGAAGGGCGAGAAGCCGCAGGTGCGGGAGCGCGGGCCCTACGTGTACAGGGAGTTCAGG 120
Oy 1597 CGCP		& a	450 CATAAGGCCAACATCACCTTCAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGC 509
1		& A	510 CTCCATTTCCAGCGGACAGGTCCCACGGCTCTGAGAGTGACTACATTATACTGCTAAC 569
п		ò a	
Db 839 CTGA	839 CTGATTAGCTTGGTCAAGACCAGTCCTAAAGCC 879	۵ ک	ATGACCTTGGGGCCTGGCCTGGGCCTGCCTTTATGAACCGAACAGTTGGTGAA
RESULT 11 BM553238		ପ୍ର	301 ATGACCTTGGCATTCACCACCCTCGGCGAACGTGCCTTCATGAACCGCACTGTGGGTGAG 360
ž	BMS53238  1088 bp mRNA linear EST 20-FEB-2002 AGENCOURT 6572721 NIH_MGC_41 Homo sapiens cDNA clone IMAGE:5467120 5', mRNA Sequence.	& 6	690 ATCCTGTGGGGCTATGAGGATCCCTTCGTGAATTTTATCAACAATACTTACCAGACATG 749
ACCESSION BM5532 VERSION BM5532 KEYWORDS EST.	238 238.1 GI:18791793	ò	TTCCCCATCAAGGGCAAGTTCGGCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTC
ΜS	Homo sapiens (human) Homo sapiens	<b>a</b>	421 Trecerreadgacaagricggarrarrigergagereaagaacrecgaererggere 480
	Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, mammalia, Butheria, Buarchontoglires, Primates, Catarrhini, Hominidae, Hom	<u>ک</u> ج	810 TTCACTGTGTTCACGGGGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAAT 869 481
CE RS	1 (bases 1 to 1088) NIH-MGC http://mgc.nci.nih.gov/.	8 8	GGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCC
JOURNAL Unpubl	National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)	q	
	ordicat: Kobelt Straubberg, Pn.D. Email: cgapbs r@mail nih.gov Tissue Procurement: DCTD/DTP	ð i	GGGCAGAIGTGGGCACCATTCATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAA
CDNA	Library Preparation: Rubin Laboratory Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)	යි	GGGCAAATGTGGCCCGCCCTTCATGACTCCTGAGTCCTCGCTGGAGTTCTACAGCCCGGAG
DNA & Clone	DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I M A G B Consortium/IJMI at:	& 6	990 GCCTGCAGGTCTATGAAGCTCACCTACCATGATCAGGGGGTGTTTGAAGGCATCCCCACC 1049
http:/ Plate:	http://image.llnl.gov Plate: LLCM1968 row: j column: 17	}	TATICGCTTCACACCCCCTAAAACTTTGTTTGCCAATGGGTCTGTTTACCCCCCAATGAA
High of FEATURES BOUICE	quality sequence stop: 698. Location/Qualifiers 11088	q	721 TATCGCTTCGTGGCTCCCAAAACCTGTTTGCAACGGGTCCATCTACCCACCCAACGAA 778
	/organism="Homo sapiens" /mol_type="mRNA"	ò	1110 GGTTTCTGCCCGGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCA 1169
	/db xref="taxon:9606" /clone="IMAGE:5467120"	q	779 decriciecedriceredagieredaarieadaacereadeaecricaderedagiee 838
	/tissue_type="amelanotic melanoma, cell line" /lab_host="DH10B (phage-resistant)" /clone_lib="NIH_MGC_41"	& a	1170 CCCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTT 1229
	<pre>/note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:</pre>	λõ	CTGGGTCTGAACCCTGACCAAGGGAGCATTCTTTGTTCCTTGACATCCATC
	GGCACAAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California,	a (	ACTIGGCCTGCACCCTAACAGGAAGCA-CACTCCTTGTTCCTGGACCATCCACCCGGGCACG 957
	berketey) using ZAP-CDNA Byninesis Kit (Sizatagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."	<b>≩</b> 8	1290 GGAATICCCATGAACTICTTCTTGTAAGTTGCAAATAAGCCTCTACATCAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGCTGTAAGATCTGTTGCA 1017
		ò	1350 GGCATTGGG-CAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTCTGGTTTTGAGCA 1408
Query Match Best Local Similarity Matches 849; Conser	37.9%; Score 677.6; DB 3; Length 1088; llarity 78.5%; Pred. No. 8.2e-169; Conservative 0; Mismatches 229; Indels 4; Gaps 3;	qa	1018 AGCATTGGGACAACTGGGGAAAAATGAGCCTGTGGGCCCGGGCCCTGGTTTGGGGTTTGGA 1077
Oy 330 ATCC	TGGTCAATCCCAGCGAGATC 38	ठे <u>व</u>	1409 GA 1410 
		RESULT 12 BO917716	r 12 716
	•		

```
is EST.

Mus musculus (house mouse)

Mus musculus (house mouse)

Mus musculus (hordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;

Sciurognathi; Murcidea; Muridae; Mus.

ICE 1 (bases 1 to 907)

NRS NIH-MGC http://mgc.nci.nih.gov/.

S National Inseltutes of Health, Mammalian Gene Collection (MGC)

NAL Unpublished (1999)

Tissue Procurement: Jeffrey E. Green, M.D.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC Clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llh.gov

Plate: LLAM11243 row: 1 column: 15

uich muality sequence stop: 798.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BI218548 907 bp mRNA linear EST 11-JUL-2001 602938062F1 NCI_CGAP_Li9 Mus musculus cDNA clone IMAGE:5101214 5',
                                                                                            479
                                                                                                                                                                                                                                                                                                                 668
                                                                                                                                                                                                                                                                                                                                                                                       599
                                                                                                                                                                                                                                                                                                                                                                                                                                                              728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 729 AACAAAIACITACCAGACAIGIICCCCAICAAGGGCAAGIICGGCCIGITIGAIGAGAIG 788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mol_type="mRNA"
/strain="rVB\N"
/db_xrref="taxx0:10090"
/db_xrref="taxx:101214"
/clone="IMAGE:5101214"
/lab_host="DH10B (T1 phage-resistant)"
/clone lib="NCI CGAP_Li9"
/note="Crgan: liver; 'vector: pCMV-SPORT6; Site_1: NotI;
Site_2: Sall; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.9 kb. Constructed by Life
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420 TCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCTCAGAGAGT
                                                                                                                                                                                                            480 GACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGATGGAGGCCAAG
                                                                                                                                                                                                                                                                                                                                                         540 CCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCACCATGGGCCAGCGTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                              669 ATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGAATTTTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        789 AACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  849 CACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGC
                                                                                                                                                                           609 TCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGCGTGCCTTT
                             489 TCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCTCTGAGAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GI:14671992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            909 AACATGATCAATGG 922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               840 TACATGATCCATGG 853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mRNA sequence.
BI218548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BI218548.1
                                                                                                                                                                           549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
BI218548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                       δ
                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                 8
AGENCOURT 8763294 NIH_MGC_129 Mus musculus cDNA clone IMAGE:6313455 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone="IMAGE:6313455"
/clone lib="DH108 (phage-resistant)"
/clone lib="NHH MGC 129"
/note="Organ: olfactory epithelium; Vector: pCMV-SPORT6.1;
Site_1: ROGNY, Site_2: NOtL; Cloned unidirectionally.
Stie_1: ROGNY, GITE_2: NOTL; Cloned unidirectionally.
Stime: colligo dT. Average insert size 2.2 kb. Constructed by ResGen, Invitrogen Corp. Note: this is a NIH_MGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               369 GTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGCGTGGACCC 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCGAGAGCCCCTTCCGCGCACCGCGGACATGGGCGGCAGCTCCAGGGCGCCTGGGTGGCC 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120 TTGGGGTTGGGGCCCTGGGGCTGCTGTTTGCTGCGCTCGGCGTTGTCATGATCCTCATG 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180 graccerecerearcaacaacaacaacaecreereaaaarereecaraaaceeaacaacere 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACTTCTTCGAG 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240 recricescarerecaaggagarececerecerretaerererererererereresaa 299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCC 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATGATACTGTG 488
                                                                                                                                                                                                                                                                                                                                                                                                                                        NIH-MGC http://mgc.nci.nih.gov/.

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Lupublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Susan L. Sullivan, PhD.

CDNA Library Preparation: ResGen, Invitrogen Corp

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/Libl. at:

http://image.llni.gov
Plate: LiAM13740 row: j column: 16

High quality sequence stop: 622.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              53
                                                                                                                                                                                                                                                                                                             Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Buarchontoglires, Glires, Rodentia,
Sciurognathi, Muroidea, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TATGICTACAGGGAGTICAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTCCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cricidicalcricidideccicoscocicideccicideccicideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcricideccicalcric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCGCGAGCCCCGGCCCGCACACGCGGACATGGGCCGCCAGCGCCCAGGGCGCCTGGGTGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGGGGCTGGGCGTCGTGGGGCTGCTGTGCCTGTGCTCGGTGTGGGTTATGATCCTCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            249 ATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCAGCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 979;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 36.5%; Score 652.2; DB 5; Best Local Similarity 85.9%; Pred. No. 4.6e-162; Matches 734; Conservative 0; Mismatches 119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                              Mus musculus (house mouse)
                                                                                                                                                                   BQ917716.1 GI:22332414
                                                                                                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        69
                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGIN
```

용

ઠે 셤 ð 쉱 ઠે 셤 ò 셤 ò 8 ð 8

ઠે

```
Homo sapiens
                                 BQ877329.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                               REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŗ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTGGTGCCCGTCATCTACCAGTTGCGCAGCAGAGAAATGCTTTTTATTTTGGAGTGG 1582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TA--GTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCTCTGATG 1640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAA 1223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCT 1343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCCATTGCTGTTTT 1403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ų,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCGCAAGCCTGCAGCTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTGAAGGCATC 1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGTGCGCCTCTGTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAA 420-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCGGAGGCATGCAGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301 AACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTT 360
                                                                                                                                                                                                    863
                                                                                                                                                                                                                                                                                                                                                                                                                                          983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 CCCACGTATCGCTTCACGGCCCCCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACG
                                                                                                                                                                                                                                                                                                                          923
                                                                                                                                                                                                                                                                                                                                                                              61 regalacede de la reconstrucción de la reconstruc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 ACTTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGC 180
                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541 GTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAGCAGAGCGGTGCCATGGGCGCGCGCGCTGAACACGTTCTACACGCAGCTGGTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721 recrestrectarcarci-schacrecededededaaaaaarecririrgeragaaagies
                                                                                                                                                                                                    GGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGA
                                                                                                                                                                                                                                                           GGGCTCTTCACTGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAA
                                                                                                                                                                                                                                                                                                                    TGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                          ACTTCCGGGCAGATGTGGGCACCATTCATGACACCCCCAGTCCTCGCTGGAATTCTTCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCAGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCACTGGGATCCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCTCTACATCAAATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            661 ATGCCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGCTGGGGGCTTGGAGGCCTCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780 TACGTGAAAAAGGGCTCCCAGGATAGCGAGGCCATTCAGGCCTACTCTGAGTCCTTGTTG
                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1641 TCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGCTGTAGGGTCCCAA 1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rcccagtraccaagggccccgragraccagaagccaggraraggccraaa 892
Technologies. Note: this is a NCI CGAP Library.
                                                                                                                                                 4,
                                                                                       Length 907
                                                                                 Score 639; DB 2; Length 90
Pred. No. 1.5e-158;
0; Mismatches 135; Indels
                                                                              35.7%;
Local Similarity 84.4%;
nes 754; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1044
                                                                                                                                                                                                                                                                                                                                                                                                                                       924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1583
                                                                                 Query Match
                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 14
                           ORIGIN
                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                    名
                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

BQ877329 968 bp mRNA linear EST 16-AUG-2002 AGENCOURT 8074145 NIH\_MGC\_102 Homo sapiens cDNA clone IMAGE:6087067 5', mRNA Requence.

LOCUS DEFINITION

BQ877329

```
/tissue_type="epidermoid carcinoma, cell line"
/lab host="DH10B (phage-resistant)"
/lab host="DH10B (phage-resistant)"
/lone_lib="NIH MGC_102"
/note="Organ: adlivary gland; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoR1; cDNA made by oligo-dT priming.
Directionally cloned into EcoR1/XhoI sites using the
following 5' adaptor: GGGAGAG(G). Library constructed
by Ling Hong in the laboratory of Gerald M. Rubin
(University of California, Berkeley) using ZAP-CDNA
synthesis kit (Stratagene) and Superscript II RT (Life
Technologies). Note: this is a NIH_MGC Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTATACTGCCTAACATTCTGGTCTTGGGGGGCGCAGTAATGATGGAGGAGCAAGTCTGCAG 615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64 TCGTCATGCCCAACATCCTGGTCTTGGGTGCGGCGGTGATGATGGAGAATAAGCCCATGA 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     676 GAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGAATTTTATCAACAAAT 735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               364 TGGACAAGTGGAACGGGCTGAGCTTGACTTCTGGCATTCCGATCAGTGCAACATGA 423
                                                                                                                          Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Buarchontoglires; Primates; Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                124 CCCTGAAGCTCATCATGACCTTGGCATTCACCACCCTCGGCGAACGTGCCTTCATGAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        184 GCACTGTGGGTGAGATCATGTGGGGCTACAAGGACCCCCTTGTGAATCTCAACAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            þ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCCACGGCTCTGAGAGTGACTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   recadraceccarectriceadriceadecerecaagreecaegecregagagaerada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGCGTGCCTTTATGAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      244 ACTITICCAGGCATGTTCCCCTTCAAGGACAAGTTCGGATTATTTGCTGAGCTCAACAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATCCACCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 304 CCGACTCTGGGCTCTTCACGGTGTTCACGGGGGTCCAGAACATCAGCAGGATCCACCTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGACAGATGGAATGGGCTCAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGA
                                                                                                                                                                                    Hominidae, Homo.

1 (bases 1 to 968)

NIH-MGC histori. nih.gov/.

National Interitutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Emall: cgapbs-romail.nih.gov

Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CDNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MCC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov.
Plate: LLCM2323 row: a column: 20
High quality equence stop: 728.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34.9%; Score 624.8; DB 5; Length 968; 79.0%; Pred. No. 9.2e-155; Indels 0; Mismatches 197; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6087067"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
GI:22269337
                                                             Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 79.0
Matches 743; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      i. .968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

용 ઠે a Š g 음 성

ઠે

ઠે 윱 ઠે g ò 셤 ð 셤 8 셤

```
GCTGGTGCCCGTCATCTACC-AGTTGCGCAGCCAGGAGAAATGCTTTTTATTTTGGAGTG 1581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   986 GGAAGCCTGCAGGTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTGAAGGCATCCC 1045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   derigerecearcateraceaaergegeagecagagaaargertngfregagagga 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         62 GAACGGACTCAGCAAGATGGTTATTGGCATTCAGAGCAGTGTAAACATGATCAATGGGAC 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       926 TTCCGGGCAGATGTGGGCACCATTCATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     122 TTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTGGAATTCTTCAGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1106 TGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCGGGTTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 542 greandedearcedecaacadedaacarceadecagracrecederrecreredric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1464 ATG-CCCCAGGTACTTCAGTATGTGCAGTATGTGCTGCTGCGGCTGGGGCGGCCTCCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              808 TCTTCACTGTGTTCACGGG--CGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 rerreacrerereacesererereacasaarrreacasesareeareereseseaaare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       866 GAATGGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        302 CGAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        362 TGCGCCTCTGTTTCTCTCCCACCCCACTTTTACAAGGCCGACCCTGTGTTGTCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        422 rérrictrigéricrica Acceta Accea Aséa de Arriccristric citada Carcea recente de Carte de C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1404 GAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACACGTTCTACACGCAGCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      602 GAACAGAGCGGAGCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1166 TGCACCCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1226 CGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATTCTTTGTT-CCTTGACATCCATCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1285 TCACTGGGATCCCCATGAACT-GTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           482 TCACTGGGATCCCCATGAACTGGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1344 GTCAAGGGCATTGGGCCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        242 CACGTATCGCTTCACGCCCCCCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Argececeasgirerreaciaegesesagiarigiserisesesesiresaggeereererr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tch 33.9%; Score 606.8; DB 3; al Similarity 81.5%; Pred. No. 5.8e-150; 788; Conservative 0; Mismatches 168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Si
Matches 788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             722
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   oltiust | 987 bp mRNA linear EST 14-AUG-2001 602963757F1 NCI_CGAP_Lu33 Mus musculus cDNA clone IMAGE:5119023 5', mRNA sequence.
                                                                                                                                   TCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTG 1035
                                                                                                                                                                                                                                                               1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1216 TATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGGAGCATTCTTTGTTCCTTGACA 1275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCCATCCGGTCACTGGGATCCCCATGAACTGTTTGTGAAGTTGCAGATAAGCCTCTACA 1335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGC 1395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  þe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                483
                                                                                                                                                                                                      543
                                                                                                                                                                                                                                                                                                                                  603
                                                                                                                                                                                                                                                                                                                                                                                                                                                               663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           664 GCAGGTTCAGTGCCCCCTTGTTTCTCTCCCATCCTCACTTCCTCAACGCTGACCCGGTTC 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       724 TGGCAGAAGCGGTGACTGGCCTGCACCCTAAACAGGAGGCACACTCCTTGTTCCTGGACA 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGAAATCTGTCGCAGGCATTGGACAAACTGGGAAGATTGAGCCTGGGGGTCCTGCGCGC 903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia,
Sciurognathi, Muroidea, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: NGT-CGAP clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.lln.gov
Plate: LLLAM1290 rows b column: 16
High quality sequence start: 2
High quality sequence stop: 865.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGC
          TCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCCAGTCCTCGCTGGAAT
                                                                                                                                                                                                                                                                                                                                                                                               ACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCCGGCATTCAAAATGTCAGCACTT
                                                                                                                                                                           124 TCAATGGAACTTCTGGGCAAATGTGGCCGCCCTTCATGACTCCTGAGTCCTCGCTGGAGT
                                                                                                                                                                                                                                                                                                       604 ACCCACCCAACGAAGGCTTCTGCCCGTGCCTGGAGTCTGGAATTCAGAACGTCAGCACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (bases 1 to 987)
NIH-MC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
TONA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCT 1435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCTGGTTTGCAAAGAGGGGGGGCCATGAAGGGGGGGGGTT 943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Mus musculus"
/mol_type="mRNA"
/strain="Czech II"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BI410841.1 GI:15171764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BI410841
                                                                                                                                                                                                                                                                                                                                  544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1336
          916
                                                                                                                                   916
                                                                                                                                                                                                                                                                                                                                                                                               1096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 15
BI410841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
```

1225

421

1284

481

1165

301

361

985 181

61

241

1403

1463

601

3A 1638	AT 839	2A 1698	4A 899	3¢ 1758	ا اد 959
1582 GIAGTAAAAAGGGCTCGCAGATAAGGAGGCCATTCAGGCCTACTCTGAGTCTCTGA 1638		1639 TGTCACCTGCCAAGGCCACGGTGCTGCAAGCAAGCTGTAGGTCCCAAAGACA 1698	840 GTCCACCAGCTGCCAAGGCACGGTGCTTGCAAAAAGCCAAGGTAATAGGGTCTTGAAGAA 899	· 1699 CCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCATCCAGCCCCTACACCCCGC 1758	900 ACCTATAAGGCCCAAAACTGATAGCTTGGTCAAGACCAGCACCAGTCCTAAACCCGGTTC 959
1583	78.	163	84(	. 169	906
ò	qa	ð,	qq	ò	qa

Search completed: February 24, 2006, 02:49:14 Job time : 7298.62 secs

1759 TTCTTGA 1765 || || 960 TTGAGGA 966

දි දි



```
LOCATION: 156. T683
OTHER INFORMATION: /function= "Nucleotides 156 through 1683
OTHER INFORMATION: encode the amino acid sequence for the Hamster Scavenger Receg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: MIT
TELECOMMUNICATION INFORMATION:
TELEPRONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc_feature
LOCATION: 156.1683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDENDESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRATURE:
                                                                                                                 February 23, 2006, 18:01:48; Search time 308.759 Seconds (without alignments) 10293.724 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 11, App
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                            US-08-765-108-3
1788
1 GCCACCTGCAGGGCTACTGC......CTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 3, Sequence 3, Sequence 3, Sequence 3, Sequence 7, Sequence 7, Sequence 3, Sequence 3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 3,
Sequence 3,
Sequence 3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1
Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                     2606114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Cgn2 6/ptodata/1/ina/1_COMB.seq:*
/ Cgn2 6/ptodata/1/ina/5_COMB.seq:*
/ Cgn2 6/ptodata/1/ina/6A_COMB.seq:*
/ Cgn2 6/ptodata/1/ina/6B_COMB.seq:*
/ Cgn2 6/ptodata/1/ina/H_COMB.seq:*
/ Cgn2 6/ptodata/1/ina/PCTUS COMB.seq:*
/ Cgn2 6/ptodata/1/ina/PP_COMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -09-241-581B-7
                                                                                                                                                                                                                                                                                                                                           1303057 segs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -08-890-979-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-559-505-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                           OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                              IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Issued Patents NA:
                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0
100.0
100.0
100.0
99.9
99.9
99.9
76.6
                                                                                                                                                                                                                     Perfect score:
                                                                                                                                                                                                                                                                                  Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database :
                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                     Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Result
```

25	193.2	10.8	4465	mm	US-09-949-016-2027 US-10-024-396-12	Sequence 2027, Ap Sequence 12, Appl
26	189	0	485		-12	equence
27	132.6	•	397		ΰ	
28	131.8	٠	41322		13	Sequence 13, Appl
29	131.8	٠	90472		US-09-949-016-14038	Sequence 14038, A
30	128.6	•	481		US-08-890-980-11	ij
31	128.6	•	481		US-08-890-979-11	ä
32	128.6	•	481		US-09-032-894-11	Ξ
33	128.6	•	481		US-09-031-626-11	Ħ
34	123	•	526		US-08-890-980-8	Sequence 8. Appli
3.5	123		226		S-068-80-SI	
36	123	•	226		115-09-032-894-8	à
3.5	103	•	220		115-09-031-626-8	à
9 6	117.6	•	200		TC-00-000-000-0	
ם היי	117.6	•	2001		TG-08-800-878-R	, ,
7 4	117.6	•	1005		118-08-830-313-3	
7	117.6		1007		118-09-031-00-01	n u
1 (	1	٠	4 6 6		110 00 000 000 0	ה י
4.	117		V 1	N (	000-000	ر د د
4.	111		4. 4 V C	<b>n</b> (	-08-870-979	ò
4 4 4 1	117	מי	4, 4 V L	<b>.</b>		a) (
n r	ì		r 1	า	979-750-6	sednence o, Appri
		-			ALIGNMENTS	•
	,					
RESULT	1					
US-08-5	US-08-559-505-1		•			
Seque	Sequence 1, Application US/0855950	plicat	ion US/	3855	59505	
; Paten	Patent No. 5925333	25333 MATTON				
avap.	TOTAL TOTAL	MAI LON		,	10 40 K T 10 10 K	10101
	PLICANI:	Monty	Ariege	بر	AFFLICANI: Moncy Arieger, Susan L. Accon, Actili	Kigorri,
	AFFLICANI:	HODDS A	and raciny L	2	00 1001	my kmdii didii
	TILLE OF INVENTION:	VENTIO		2	FOR MODULALION OF	FID UPIAND
 S	MBER OF	SECORNCI	6			
3	CORRESPONDENCE ADDRESS	NCE AD	ORESS:	٠		
		S: Pat	rea L.	ge.		
	STREET	2800 0	ne Atlan	Ξ.	2800 One Atlantic Center	
		1201 W	est Pead	ähtz	ee Street	
	CITY: At	Atlanta				
	STATE: (	Seorgia				
	COUNTRY: USA	USA				
	ZIP: 30309-3450	309-3450	0			
8	COMPUTER READABLE FORM:	SADABLE	FORM:			
	MEDIUM TYPE	(PE: F)	: Floppy disk	i sk		
	COMPUTER:		IBM PC compatible	atik	ole	
	OPERATING SYSTEM:	3 SYSTEN		Sos	PC-DOS/MS-DOS	
	SOFTWARE:	Pater	PatentIn Release	leas	se #1.0, Version #1.25	
5	CURRENT APPLICATION DATA:	PLICATIO	N DATA			
	APPLICATION NUMBER:	TON NUMB	BER: US	US/08/	3/559.505	
. ••	FILING DATE:	ATE: 29	-NOV	995	•	
. ••	CLASSIFICATION:	ATION:	435			
AT	ATTORNEY/AGENT INFORMATION:	SENT IN	PORMATIC	ä		
	NAME: Pe	Pabst, Pa	Patrea L			
	2	TON NUM		31,284	184	
	REFERENCE/DOCKET NIMBER.	Z / DOCKE	NIMBE		MITTLE	

1200

1260 1320 1380 1380 1440 1500 1500 1560 1620

ઠે 셤 Š 셤 g

ઠે

요 ò g ઠે ద ò 유 à g 8 셤 8 а ò 8 ઠે 셤 8 g ò ď ⋧ 원

ઠ

```
1501 IGGGGCTGGCGGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCAATGGGTCTGTTTACCCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                  CCAATGGCTCTGTTTACCCACCCACCCATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                             AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA
                                                                                                                                                                                                  ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAGAGGAGCATT
                                                                                                                                                                                                                                                                 CTITGITICCTTGACATCCGATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                            AGATAAGCCTCTACATCAAAGCTGTCAAGGCCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                           TGGTCCTCCCATTGCTGTTTGAGCAGAGCGGTGCCATGGGCGGGGGGGCGCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                  CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGGGGCTGGCGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATGCTTTTTTTTTTGGAGTGGTAGTAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AATGCTTTTTATTTTGGAGTGGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCTACTCTGAGTCTCTGATGTCACCCAGCTGCCAAGAGGCACGGTGCTGCTAGAAGACCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                            AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                    ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                   AGATAAGCCTCTACAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                          TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                   CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                            CTTTGTTCCTTGACATCCATCCGGTCACTGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        l Karen Kozarsky
CHOLESTEROL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1021
                                         1021
                                                                                                 1081
                                                                                                                             1141
                                                                                                                                                         1141
                                                                                                                                                                                      1201
                                                                                                                                                                                                                  1201
                                                                                                                                                                                                                                            1261
                                                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                                                     1321
                                                                                                                                                                                                                                                                                                                              1321
                                                                                                                                                                                                                                                                                                                                                            1381
                                                                                                                                                                                                                                                                                                                                                                                        1381
                                                                                                                                                                                                                                                                                                                                                                                                                   1441
                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1681
                                                                    1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          日
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
             ઠ
                                   g
                                                                   ò
                                                                                         g
                                                                                                                      ઠે
                                                                                                                                                    g
                                                                                                                                                                                   ð
                                                                                                                                                                                                         g
                                                                                                                                                                                                                                   ठ
                                                                                                                                                                                                                                                                  පු
                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGICCICGCIGGAATICTICAGICCGGAAGCCIGCAGGICTAIGAAGCICACCIACCAIG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1020
                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     960
                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                       120
                                                                                                                                                                                                   180
                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                                  TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC 420
                                                                                     9
                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GIGCCTITATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCAGTGCAACATCAATGAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                        GCAGCCTGTCCTTTGCAATGTGGAAGGAGAACCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                            AGCCTCGGCTTCTGTCTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                         AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCGCCCTTCAGTC
                                                                                                                                                                                                                                                                                       GGGTGGCGGTGGGCCTCGTGGGGCTGCTGTGCGCTGTGCTCGGTGTGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                           GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                     GCCACCTGCAGGCCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                     CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCTT
                                                                                                                                                                                                                          CCTGAGCCCCGCGAGCCCGCACACCCGGCACATGGGCGGCACCCCCAGGCGCGCCT
                                                                                                                                                                                                                                                           GGTGGCGGTGGGCGTCGTGGGCCTGCTGTGCGTGTGCTCGGTGTGTATGA
                                                                                                                                                                                                                                                                                                                  TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                   1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                        Gaps
                                                        ö
                          Length 1788;
                                                        Indels
                            DB 2;
                                                        ö
                       Query Match 100.0%; Score 1788; Best Local Similarity 100.0%; Pred. No. 0; Matches 1788; Conservative 0; Mismatches
US-08-559-505-1
                                                                                                                                            19
                                                                                                                                                                       61
                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            961
                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              841
```

601 AGAGCAAGTCTGCAAGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC 660 601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTAGCCACTTGGGCCAGC 660 601 AGAGCAAGTCTGCAGCCTGAAGCTGATGATGACCTTGGGGCTATGAGCCTTGGGCCAGC 660 661 GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCTTCGTGA 720 661 GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGTATGAGGATCCTTCGTGA 720 721 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAGGGGAAGTTCGGCCTGTTTG 780 721 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAGGGCAAGTTCGGCCTGTTTG 780 721 ATTTATCAACAAATACTTACCAGACATTCCCCATCAAGGGCAAGTTCGGCCTGTTTG 780	181 TTGAGATGAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA 840	901 AGCAGTGCAACATGATGGCACTTCCGGCCAGATGTGGGCCCCTTCATGACCCCC 960	1021 ATTCAGGGGTGTTTGAAGGCATCCCCACTATCGCTTCACAGCCCCTAAAACTTTGTTTG	CCAATGGGTCTGTTTACCCACCCAATGAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC  AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACCCCTCACTTCTACA  AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTTCTGTCACACCCTCACTTCTACA  AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA  AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA	ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGAGCATT 	CTTIGITICATION CATCCATCCGCACATCCCATGAACTGTTCTGTGAAGTTGC 13  [[	1321 AGATAAGCTCTACATCAAAGCTGTCAAGGGCATGCGGAAACAGGGAAGATCGAGCCCG 1380 1381 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCCATGGGCGGGGGAGCCCCTGAACA 1440 1381 TGGTCCTCCCATTGCTGTGGTTTGAAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA 1440	1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500  1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500  1501 TGGGGCTGGGCGCTCCTGCTGGTGCTGGTGCCGTCATTCCAGTATGCGCAGGAGA 1560	TGGGGCTGGGGCCTCCTGCTGCTGCCCGTCATCTACCAGTTGCCGCAGCCAGGAGA 156 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGAGCCATTCAGG 162	ATGCTTTTTATTTTGAGTGGTAAAAAGGCTCGCAGGATAAGGGCCATTCAGG	1621 CCTACTCTGATGTCTGATGTCACCAGGGGGGGGGGGTGGAGAGAGA
6 6 6 6 6	8 6 8	8 6 6 6	6 8 6	i 8 & 8	y da	8 8 8	8 & 8	\$ B &	8 B 8	요 전 ·	<u> </u>
<del></del>		ger Rece									·
OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/749,907 FILING DATE: CLASSIFICATION: 435 ATTONNEY/AGENT INFORMATION: NAME: Pabse, Patrea L. REGISTRATION NUMBER: 31.284 REFERENCE/DOCKET NUMBER: MIT7538 TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION AT1.30765	INFORMATION FOR EQUIDO: 1: SEQUENCE CHARACTERISTICS: LENGTH: 1788 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear MULECULE TYPE: CDNA	ANTI-SENSE: NO FRATURE: NAME/KEY: misc_feature LOCATION: 156.1683 OTHER INFORMATION: hordion= "Nucleotides 156 through 1683 OTHER INFORMATION: encode the amino acid sequence for the Hamster Scavenger OTHER INFORMATION: B-I."	S-08-749-907-1 Query Match 100.0%; Score 1788; DB 2; Length 1788; Best Local Similarity 100.0%; Pred. No. 0; Matches 1788; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	GCCACCTGCAGGGCTACTGCTCCGGCCACTGCTGAGACTCACCTTGCTGGAAACGTG [	121 CCTGAGCCCGCGAGCCGGGCCGCACACGCGGACATGGGCGCGCGGGGGGGG	181 GGGTGGCGGTGGGGCGTCGTGGGGCTGTGCGCTGTGCTCGGTGTGTGTTATGA 240	241 TCCTCGTGATGCCTCGCTCGAAGAGGGGTACTGAAGAAGAGTCCGCATAGACCCCCA 300 301 GCAGCCTGTCCTTTGCAATGTGCAAGAGATCCCTGTACCTTCTTGTCTTGCTTACT 360 301 GCAGCCTGTCCTTTGCAATGTGGAAGAGATCCCTGTACTTGTCTTGTCTTACT 360 301 GCAGCCTGTCCTTTGCAATGTGTAAGAGAACATCCCTGTACTTGTCTTGTCTTACT 360	TCTTCGAGGTGGTCATCCCAGGGAGATCCTAAAGGGTGAGAAGCCAGTAGTGGGGAGG 	GTGGACCCTATGTCTACAGGGATTCAGACATAAGGCCAACATCACCTTCAATGACAATG 	481 ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCCT 540	541 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGG

```
CTGAGCCCCGCGAGCCCGGGCCGCACACGCGACATGGGCGGCGGCGCCCAGGGCGCGCCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1201 ATGCAGACCCTGTGCTATCAGAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAAGATCCACCTGGTGGACAGATGGGATGAGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Greccritareaaccearcacricereaarccricrereresecrareagarcccricerea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            901 AGCAGTGCAACATGAATGAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141 AAAATGTCAGCACTTGGAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCAAGATCCACCTGGTGGACAGATGGATTGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAATGGGTCTGTTTACCCAACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                               recreargaraccerecreareaacacaagracraaagaargreegearaaceeea
                                                                                                                                                                                                                                                                                             TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                               TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAGAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATACTIGITGTTTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601 AGAĞCAAĞTCTĞCAĞĞCCTĞAAĞCTĞATĞATĞATĞACCTTĞGĞĞCTĞGCCACCTTGĞĞCCAĞC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTITATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      781 TIGAGAIGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                         TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCA
                                                                                                                                                                                                                                                                      GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      961
                           121
                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1081
                                                                           181
                                                                                                                                                                         241
                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                           음
                                                                         ઠે
                                                                                                                 셤
                                                                                                                                                                    8
                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                              1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCCAGGGCGCGCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTTTGTTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
     TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: misc_feature
LOCATION: 156..1683
OTHEN INFORMATION: /function= "Nucleotides 156 through
1683 encode the amino acid sequence for
the Hamster Scavenger Receptor Class
                                                                                                                                                                                                       RESULT 3
US-09-241-581B-3
Sequence 3, Application US/09241581B
Sequence 3, Application US/09241581B
Sequence 3, Application US/09241581B
Sequence 3, Application US/09241581B
SENERAL INFORMATION:
TITLE OF INFORMATION: Class BI and CI Scavenger Receptors
TITLE OF INFORMES: 8
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
Sequence 3, ADDRESSEE: Patrea L. Pabst
CORRESPONDENCE ADDRESSE:
CORRESPONDEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
                                                                                                                         1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                  1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: E10ppy disk
COMPUTER: E10ppy disk
COMPUTER: E10ppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1...
SOFTWARE: PatentIn Release #1.0, Version #1...
APPLICATION NUMBER: US/09/241,581B
FILING DATE: 02-Feb-1999
CLASSIFICATION: -Unknown>
ATTORNEY/AGENT INFORMATION:
REFERENCE/DOCKET NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
TELEFHONE: (404) 873-8794
TELEFAX: (404) 873-8795
FFORWATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 1788;
llarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1788 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
RYATI-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 1788; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-241-581B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                          g
                                                                                                                                               셤
                                                                                                  Š
```

720

780 780

900 600 999 99 720 1080 1140 1260

1020

900 960

유 8 셤 ઠે 셤 ò 셤 à

```
encode the amino
                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGCGCAGCGCCAGGGCGCCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACTCTACTTGTCCGTCTACT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rccrcercardeccrcercarcaacacacacararcaaargracacaracacaca 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG 900
                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 AGCCTCGGCTTCTGTCATCTCTGTGCCTCTGTCGCTGTCGCCTGTCCGCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541 crcacacracarrataracroccraacarreregrerregececececacraareares
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661 GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781 TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                    GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                1 eccaccrecaecerracrecrecrececcacrecereaeacreaecrrecreeaeaegre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGGTGCCGTGCGCGTCGTCGTGCGCTGTGCCTGTGCTCTCGCTGTCGCTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gregacccratercracaegaarrcagacaraaegccaacarcaccrrcaargacaare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481 ATACTGTGTCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              781 TTGAGATGAACAACTCTGGGCTCTTCACTGTGTTCACGGGGGGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATACTIGICATOTOTOGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                 NAME/KEY: misc_feature;
; LOCATION: 156.1683
US-08-265-428-3
US-08-265-428-3
                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                       DB 3; Length 1788;
                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCT
                                                                                                                                                                                                                                                                                     Query Match
100.0%; Score 1788;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1788; Conservative 0; Mismatches
  nucleic acid
                                                   linear
                        STRANDEDNESS:
TOPOLOGY: line
MOLECULE TYPE: C
HYPOTHETICAL: NO
ANTL-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                              1380
                                                                                                                                                                           AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                 TGGTCCTCCCATTGCTGTGTGGGCAGAGCGGTGCCATGGGCGGGGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                 CGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                 TGTAGGGTCCCAAAGACACCACGAGCCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGGCTGGGCGCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1561 AATGCTTTTTATTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1621 ceracrereagrererargreaccagereceasedangeaccagereceaseangeage 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1681 Térrádegreceanadacacececédesecececentaria respectation de la 1740
                                                                                                                                         AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1741 ccaecceracaceceerrerreagaacrererageacagacagrege 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/265,428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Krieger, Monty
TITLE OF INVENTION: Class BI Scavenger Receptors
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 1100 Peachtree Street, Suite 2800 CITY: Atlanta STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JS-08-265-428-3
; Sequence 3, Application US/08265428
; Patent No. 6429289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Paber, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MT16
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (404) 815-6508
TELEFAX: (404) 815-6555
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1788 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 30309-4530
COMPUTER READABLE FORM:
MEDIUM TYPE: Florer A-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGIH:
                                                                                                                                         1321
                                                                                                                                                                                     1321
                                                                                                                                                                                                                                                                                                                                 1441
                                                                                                                                                                                                                                                                                                                                                                               1441
                                              1261
                                                                                                                                                                                                                                   1381
                                                                                                                                                                                                                                                                                  1381
                                                                                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1741
```

us-08-765-108-3.rni

셤

셤

ò

유

ò

g

ò

셤 ò 셤

ઠ

셤 ઠે ద δ 셤 ò 음 8 유 8 요 à 셤 ઠે g ઠે

ð

```
"Nucleotides 156 through 1683
for the Hamster Scavenger Receptor Class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGGGC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 CCTGAGCCCCGCGAGCCCGCACCCGCACATGGGCGCGGCGCCAGGGCCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301 GCAGCCTGTCCTTTGCAATGTGGAAGAGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTGGCGGTGGGGCGTGGGGCGTGCTGTGCGCTGTGTGCGCTGTGTGGGTGTGTGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181 GGGTGGCGGTGGGCTGGGCTCGTGGGCTCGTGCGCTGTGCTCGTGTGGTATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTGAGCCCCGCGGAGCCCGCACACACGCGGACATGGGCGCGGCAGCGCCAGGGCGCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1788;
       ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
                                                                                                                                                                                                                                                                                               MEDIUM INTER: LAUPY ALEN
COMPUTER: IEM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,799
FILING DATE: 30-Aug-1999
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US/08/749,907
PILING DATE: 15-NOV-1996
ATORNEY/AGENT INFORMATION:
NAME: Pabet, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION NUMBER: MIT7538
TELECOMMUNICATION NUMBER: MIT7538
TELECOMMUNICATION NUMBER: MIT7538
TELECOMMUNICATION NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                       1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 1788;
100.0%; Pred. No. 0;
ative 0; Mismatches
                                       STREET: 2800 One Atlantic Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    encode the amino acid sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                                                                                                     COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DECORAGE CONTROLLED OF THE TABLE OF TAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: misc_feature
LOCATION: 156.71683
OTHER INFORMATION: /fur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 100.
Matches 1788; Conservative
                                                                                                                                            STATE: Georgia
                                                                                                           CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYPOTHETICAL: NO ANTI-SENSE: NO FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-385-799-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1680
                                                                                                                                                                                                                                                961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                     961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                                                                                         1080
                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCAATGGGTCTGTTTACCCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1381 TGGTCCTCCCATTGCTGTGTGTTTGAGCAGAGGGGTGCCATGGGCGGGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGTAGGGTCCCAAAGACACCACGAGGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
960
                                                                                                                                                                                960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCGCACGGTGCTGCAAGAAGCCAAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCAT
                                                                                                                                            901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                         1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1, Application US/09385799
Patent No. 6962680
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
ITILE OF INVENTION:
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1741 CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-385-799-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1741
                                                                                                                                                                                                                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681
                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT
```

ö

120

9 9

180 180 240

240

300

360

360

us-08-765-108-3.rni

```
1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGAAGCCAAGA 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1681 TGTAGGGTCCCAAAGACACCCCCCCCCCCACTGATAGCTTGGTCAGACCAGCCAT. 1740
                                     ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                         1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                               AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                               901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                       961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1381 TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGGGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501 regerencececercerecrecrecrescenterarcracearingescenterare
                                                                                         TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTTCACGGGGGGGTCCAGAACTTCA
                                                                                                                                                                                                       841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                               1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1381 TGGTCCTCCCATTGCTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1261
             721
                                                   721
                                                                                                                                                                                                                                         901
                                                                                     781
                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1741
                                                 유
                                                                                                                     g
                                                                                                                                                               상:점
                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                     ò
                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCAGCCTGTCCTTTGCAATGTGGAAGGAGAGTCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 AGCCTCGGCTTCTGTCTCTCTGTGCCTTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTGAGCCCCGCGAGCCCGCGCACACGCGGACATGGGCGGCAAGCGCCAAGGGCGCGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGTGCCGCTGGGCGCTCGTGGGGCTGCTGTGCCTGTGCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGGTCTTGGGGGGCGCCAGTAATGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 cergadececededecedadecedededegadarosecededecededede
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sel crecerrargaacceaacacracacacacacacaccercerecececrargagarcerrega
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1825;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                 DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 99.9%; Score 1786; D
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches
FILING DATE: 10-JUL-1997
CLASSIFCATION: 435
ATTORNEY ACENT INFORMATION:
NAME: AROLIGH BECH E.
REGISTRATION NUMBER: 35,430
REPERENCE/DOCKET NUMBER: MIA-005.01
TELEPANICATION INFORMATION:
TELEPANICATION INFORMATION:
TELEPANICATION SEQ 10.00
INFORMATION FOR SEQ 10.00: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1825 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                   CDS
156..1682
                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                               NAME/KEY:
; LOCATION:
US-08-890-980-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                   FEATURE
```

셤

요

Š

g

셤

ઠે

ò

8

셤

ઠે 셤 셤

ò 셤

8

ઠે

540 540 600

999

720 780

```
AGTOCTOGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1141 AAAArGrCAGCACTrrGCAGGTrrGGTGCACCCCTGTTrCTGTCACACCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                GTGGACCCTATGTCTACAGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1261 CTTTGTTCCTTGACATCCATCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCGGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781 TIGAGAIGAACAACICAGACICIGGGCICIICACIGIGIICACGGGCGICCAGAACIICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGGGGAGCCCCTGAACA
TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                  GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                       GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                       ATACTGTGTCTTTTGTGGAGCACCCCCCCTCCATTTCCAGCCGGACAGGTCCCACGCT
                                                                                                                                                                                                 ATACTGTGTCCTTTGTGGGGCCCCCAGCCTCCATTCCAGCCGGACAGGTCCCACCGCCT
                                                                                                                                                                                                                                                                      AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                  AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                      361
                                                                                                                     421
                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1381
                                                                       421
                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
               셤
                                                                    ð
                                                                                                             셤
                                                                                                                                                                     ઠે
                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 AGCCTCGGCTTCTGTCTTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 CCTGAGCCCCGCGAGCCCGGCCGCACATGGGCGGCAGCAGCGCCCTAGGCGCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 eccacciócadeceracióciócióciócaciócióadadeceraceriociódaacero
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 GGGTGGCGGTGGGCTTGGGCGTTGTGTGTTTTTTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 GGGTGGCGGTGGCGCTCGTGGGCTGCTGTGCGCTGTGCTCGGTGTGTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTGAGCCCCGCGAGCCCGCGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
     Sequence 3, Application US/08890979

| Sequence 3, Application US/08890979
| Patent No. 6030778
| GENERAL INFORMATION:
| APPLICANT: Ordovas, Jose M. |
| TITLE OF INVENTION: DISORDERS |
| TITLE OF INVENTION: DISORDERS |
| NUMBER OF SEQUENCES: SELIOT LLP |
| STREEPH: One Post Office Square |
| STREET: One Post Office Square |
| STATE: MA |
| COUNTRY: USA |
| COUN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 3; Length 1825;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/080,979
FLING DATE: US-JUL-1997
CLASSIFICATION: 435
ATTONREY/AGENT INPORMATION:
NAME: Arnold, Beth E.
REGISTRATION NUMBER: 35,430
REGISTRATION NUMBER: 35,430
REGISTRATION INPORMATION:
TELEPHONE: 617-832-1000
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1825 base pairs
TYPE: nucleic acid
STRANDENESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 99.9%; Score 1786; D
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDS
156..1682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) NAME/KEY:
; LOCATION:
US-08-890-979-3
US-08-890-979-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ሯ
```

960

840

101 GCAGCCTGTCCTTGCAAATCCGAACCCTGAAACCCTGTAACCCTCTAATTGCGGCAACCCTGTAACCCGTCAACCCTGTAACCCGTCAACCCTGTAACCCGTCAACCCTGTAACCCGTCAACCCTGTAACCCGTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCCTCAACCTCAACCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCTCAACCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCAACCCTCA
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
14.11

241 TCCTCGTGATGCCCTCGTCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300 301 GCAGCCTGTCTTTGCAATGTGGAAGAATCCCTGTACCCTTTTTTTT	GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGAA  ATTTATCAACAAATACTTACCACACATGGTCCCCATCGTGGGGGCTATGAGGATCCCTTCGTGA  ATTTATCAACAAATACTTACCACACATGGTCCCCATCGTGGGGCTATGAGGATCCGCCTGTTTG  ATTTATCAACAAATACTTACCACACATGGTCCCCATCAGGGCAAGTTCGGCCTGTTTG  ATTTATCAACAACACACACACATGGCTCTTCCCCATCAGGGCAAGTTCGGCCTGTTTCA  GCAACATCCACCTCGGGCTCTTCCGGCTCTTCAGGGCAACTTCACGGCTTCAGGACTTCA  GCAACATCCACCTCGGGCTCTTCCGGCTCTTCACGGCGTCCAGAACTTCAC  GCAACACACACACACACACACACACACACACACAC
8 8 8 8 8 8 8 8 8 8 8 8	8 4 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Oy 1441 CGTTCTACACGCAGCTGGTGCTCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500  1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500  1501 TGGGGCTGGGGGCTCCTGGTGCTGGTGCTCATCAGTATGTGCAGTATGTGCTGC 1500  1501 TGGGGCTGGGGGCTCCTGGTGGTGGTGCTACTACCAGTTGCGCAGCAGAGA 1560  1501 TGGGGCTGGGCGCTCCTGCTGCTGCTGCTGCTGCTGCTGC	15   10   10   10   10   10   10   10

```
IOCATION: 51.1577

OTHER INFORMATION: /Function = "Nucleotides 51 through 1577

OTHER INFORMATION: encode the amino acid sequence for the murine Scavenger Recept US-08-559-505-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA 889
                                                                                                                                                                                                                                       5 CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCAGGACATGGGCCGCAGCTC
                                                                                                                                                                                                                                                                                                       170 caggegececrageregecergegerregecraregecraregecrarecerrerege
                                                                                                                                                                                                                                                                                                                                    125 CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGGGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                365 CAATGACAACGACACGTGTCCTTCGTGGAGAACGGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      485 GATATIGATGGAGGGAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATGGGCCAGCGTCTTTTATGAACCGCACAGTTGGTGAGAATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                290 CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                185 CATAGACCCGAGCCTGTCCTTCGGGATGTGGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        245 GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       410 AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             425 GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         590 AGTAATGATGGAGGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                710 TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             770 CGGCCTGTTTGTTGAGATGAACACTCAGACTCTGGGCCTCTTCACTGTTCACGGGCGT
                                                                                                                                                                                                             110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        665 TGGCCTGTTTGTTGGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ccadaartricagcaggarccarcregregacaarggaacggacrcaggaarggarra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    890 CTGGCATTCAGAGCAGTGCAACATGATCGATGGCACTTCCGGGCAGATGTGGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      785 TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               845 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                     Length 1785
                                                                                                                  Score 1369.8; DB 2; Length
Pred. No. 0;
0; Mismatches 192; Indels
                                                                                                                  76.6%;
                                                                                                                                        Best Local Similarity 88.6
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 950
                                                                                                                     Query Match
                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ਠੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                            1500
                                                                                                                                      1500
                                                                                                                                                                                       1560
                                                                                                                                                                                                                                                                                 1620
                                                                                                                                                                                                                                                                                                                               1620
                                                                                                                                                                                                                                                                                                                                                                                                                            1680
                                                                                                                                                                                                          CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681 TGTAGGGTCCCAAAGACACCACCACCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                  1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                    CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCTAGGAAGACCAAGC
                                         AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                    TGGGGCTGGGCGCCTCCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                       CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3, Application US/08559505
Patent No. 5925333
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Susan L. Acton, Attilio Rigotti, Helen H. APPLICANT: Hobbs and Kathy Landshulz
TITLE OF INVENTION: METHODS FOR MODULATION OF LIPID UPTAKE
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1741 ccagccccracaccccccrrcrrcaccacrcrcrcaccccacacacrc 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFWMARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
ATTORNEY/AGRATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REPERRENCE/DOCKET NUMBER: MIT7150
TELECOMMUNICATION INFORMATION:
TELEPRAN: (404) 873-8794
ITELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/559,505
FILING DATE: 29-NOV-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 1785 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: CDNA HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 1201 West
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ANTI-SENSE:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-559-505-3
1381
                                                                                       1441
                                                                                                                                      1441
                                                                                                                                                                                  1501
                                                                                                                                                                                                                                                                              1561
                                                                                                                                                                                                                                                                                                                                                                         1621
                                                                                                                                                                                                                                                                                                                                                                                                                     1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1681
                                                                                                                                 셤
                                                                                                                                                                                                                                                                              ð
```

424

544

769 664

229

64

Gaps ö

```
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                            NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-749-907-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ß
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                1429
 1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA 1129
                                                                                                                                                   1190 TCACTICTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249
                                                                                                                                                                                                                              1250 AAGGGAGCATTCTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGTTC 1309
                                                                                                                                                                                                                                                                                                       1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA 1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1325 GCCCTGAGCACGTTCTACACGCAGCTGGTGATGCCCCCAGGTTCTTCACTACGCGCA 1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCCAGGATAAGGA 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1505 GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                          1189
                                                                                              1144
                                                                                                                                                                                                                                                                    1204
                                                                                                                                                                                                                                                                                                                             1205 TGTGAAGATGCCAGCTGTACATCATCAATCTGTCAAGGGCATCGGGAAACAGGGAA 1264
                                                                                                                                                                                                                                                                                                                                                                                                                   1265 GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGGGAGCAATGGGTGGCAA 1324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTATGTGCTGCTGGGGCTGGGCGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCG 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGA 1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1730 AGACCAGCCATCCAGCCCCTACACCCGCTTCTTGAGGACTCTCTCAGGGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1625 AGACCAGCCACCCACACCCCGCTTCTTGAGGACTCTCTCAGGGGACAGCC 1681
                                                                                                                                                                                                                                                    1145 AAAGGAGCATTCCTTGTTCCTAGACATCCCTCCGGTCACTGGGGTCCCCATGAACTGTTC
                       965 TACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                        130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC
                                                                                                                                                                         1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                                  GATCGAGCCCGTGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1430 GCCCCTGAACACGCTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3, Application US/08749907

Patent No. 596232

GENERAL INFORMATION:

APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky

TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSE: Patrea L. Pabst, Arnall Golden & Gregory

STREET: 1201 West Peachtree Street

CITY: Atlanta

STATE: Georgia

COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-749-907-3
                                                                                                                                                                                                                                                                                                                                                                                  1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1490
                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                          셤
                                                                                                                                                 ò
                                                                                                                                                                                       셤
                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                      ð
```

```
LOCATION: 51..1577
OTHER INFORMATION: /Punction = "Nucleotides 51 through 1577
OTHER INFORMATION: encode the amino acid sequence for the murine Scavenger Recept
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            365 CAATGACAACGACGCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            425 GTCGCATGGCTCAGAGAGAGAGTCTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        650 CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCCTTCGTGCATTTTCTCAACACGTACCTCCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            470 CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 590 AGTAATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCCCTTCGTGAATTTTATCAACAATACTTACCAGACATGTTCCCCCATCAAGGGCCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          530 GTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         230 TGTGGTTATGATCCTCGTGGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             125 CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   245 Grendretretregaadregreakeeeaaceaegreereakeeekeak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 2; Length 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
76.6%; Score 1369.8; DB 2; Length
Best Local Similarity 88.6%; Pred. No. 0;
Matches 1485; Conservative 0; Mismatches 192; Indels
CLASSIFICATION: 43.5

ATTOCNEY AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REPERENCE/DOCKET NUMBER: MIT7538
TELEPHONE: (404) 873-8794
TELEPHONE: (404) 873-8794
TELEPHONE: (404) 873-8794
TELEPHONE: (404) 873-8795
INFORMATION FOR SEQ ID NO: 3:SEQUENCE CHARACTERISTICS:
LENGTH: 1785 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
```

```
/Function = "Nucleotides 51 through
                 APPLICANT: Massachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
CARRESPONDENCE PATREA L. Pabst
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                   CITY: Atlanta
STATE: Georgia
COUNTRY: USO
COUNTRY: USO
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
COMPUTER: PROPY COMPACTION TO SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1577 encode the amino acid sequence for the murine Scavenger Receptor
                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/241,581B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE DESCRIPTION: SEQ ID NO: US-09-241-581B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEFRAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 02-Feb-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 1785 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            76.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         51..1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 88.6
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HYPOTHETICAL: NO ANTI-SENSE: NO FEATURE:
  GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ß
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1429
                                                                                                                                                                                                                                                                                                                                             1069
                                                                                                                                                                                                                                                                                                                                                                                                                              1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1669
                                                                                                                                                                                                                                                         1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rereaagarecaecreaecreracareaarerereaaggearegecaaacaegaa 1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1445 CAGCCAGGAGAAATGCTTTTTTTTTGGAGTGGTAAAAAAGGGCTCCCAGGATAAAGGA 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1505 GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                   889
                                                                                                                                                                       949
                                                                                                                                                                                                               844
                                                                                                                                                                                                                                                                                                 904
                                                                                                                                                                                                                                                                                                                                                                                    964
    829
                                                                                                                           784
                                         724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGACCAGCCATCCAGCCCCTACACCCCCGCTTCTTGAGGACTCTCTGAGCGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 905 GACCTACAACGAATCAAGGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      665 TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                         725 CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                             785 TIGGCATICAGAGCAGIGIAACAIGAICAAIGGGACTICCGGGCAGAIGIGGGCACCTI
                                                                                                                                                                                                                                                       CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                                                                                                                                                                                                 cárdacaccedaricerederadarienteadecedeadeargeagereardaager
                                                                                                                                                                                                                                                                                                                                          1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA
                                                                                                                                                                                                                                                                                                                                                                                                                            1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCACTTTTACAACGCCGACCCTGTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGGGAGCATTCTTTGTTCCTTGACATCCGGTCACTGGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GATCGAGCCCGTGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1265 GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGGAGCAATGGGTGGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1325 GCCCCTGAGCACGTTCTACACGCAGCTGCTGATGCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTATGTGCTGCTGGGCCGCCTCCTGCTGCTGCTGCCCCGTCATCTACCAGTTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Grandreceredesecresassecrecereresesecentereseses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                     CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGC
CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1730
7.70
                                                                                                                                                                   890
                                                                                                                                                                                                                                                       950
                                                                                                                                                                                                                                                                                                 845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1250
                                                                                                                    셤
                                                                                                                                                                   ò
                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
```

124 289 349 184 469 64 125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG 185 CATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT 245 GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT 110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGGCCGCACGCGGACATGGGCGGCAGCGC 230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTT Gaps Length 1785; ö 192; Indels DB 3; Pred. No. 0; 0; Mismatches Score 1369.8; 350 410

Sequence 7, Application US/09241581B Patent No. 6350859

RESULT 13 US-09-241-581B-7

us-08-765-108-3.rni

```
192; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1369.8;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08/749,907
FILING DATE: 15-NOV-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Pabst, Patrea L. REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                               Sequence 3, Application US/09385799
Patent No. 6962688
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 1785 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 76.6%;
Best Local Similarity 88.6%;
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 30309-3450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ANTI-SENSE: NO FEATURE:
                                                                                                                                                                                                                                                                                                                RESULT 14
US-09-385-799-3
                                                                                                                      1505
                                                                                                                                                                                                                                                             1625
                1550
                                                                                     1610
                                                                                                                                                                                          1565
                                                                                                                                                         1670
                                           요
                                                                                   ઠ
                                                                                                               g
                                                                                                                                                  8
                                                                                                                                                                                      g
                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATGACACCCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA 1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCTCTGTTTCTCTCCCACCC 1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAAGGAGCATTCCTTGTTCCTAGACATCCCTCGGTCACTGGGATCCCCATGAACTGTTC 1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGCGCATTGGGCAAACAGGGAA 1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GATCGAGCCCGTGCTCCTCCCATTGCTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGA 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     265 GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGAATGGGTGGCAA 1324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA 1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTATGTGCTGCGGCCTGGGGCGTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCG 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            965 TACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          964
                                                                                                      589
                                                                                                                                                                         649
                                                                                                                                                                                                                                             709
                                                                                                                                                                                                                                                                                                                769
                                                                                                                                                                                                                                                                                                                                                   664
                                                                                                                                                                                                                                                                                                                                                                                      829
                                                                                                                                                                                                                                                                                                                                                                                                        665 TGGCCTGTTTGTTGGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT 724
                                                                                                                                                                                                                                                                                                                                                                                                                                                         889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            784
                                  529
                                                                   424
                                                                                                                                       484
                                                                                                                                                                                                        485 GATATTGATGGAGGGAAGCCTGTGAGCCTGATGATGATGACCTTGGCGCTGGTCAC 544
                                                                                                                                                                                                                                                                              604
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             890 CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC
305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                      530 GTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGC
                                                                                                                                                                                                                                                                                                                                   605 TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 785 TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGTGTGGGCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        470 CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                 365 caargacaacgacaccererecriceregagaaccecaecricearriceagecrigacaa
                                                                                                                            590 AGTAATGATGGAGGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                             CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGA
                                                                                                                                                                                                                                                                              545 caridiscensiciaritaria accisca castros reasonas arcensis se caridiscentaria acea
                                                                                                                                                                                                                                                                                                                TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                    770 CGCCTGTTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                             650
                                                                                                                                                                                                                                                                                                                710
                                                                                                                                                                                                                                                                                                                                                                                                                                                         830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1370
                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ठे व
                                                                                                                                 셤
                                                                                                                                                                       ò
                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                               ठ
                                                               셤
                                                                                                    ઠે
                                                                                                                                                                                                                                           ઠ
```

```
, CLIMEK INFORMATION: /Function = "Nucleotides 51 through 1577 encode the amino acid sequence for the murine Scavenger Receptor Class BI. ; SEQUENCE DESCRIPTION: SEQ ID NO: 3: US-09-385-799-3
1609
                                                                                                                    1669
                                                                                                                                                  AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                       1730 AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                               1445 CAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATAAGAA
CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAAGGGCTCGCAGGATAAGGA
                                                                                                                    GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabet, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,799
FILING DATE: 30-Aug-1999
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
```

ö

Gaps

ö

Length 1785

1190 TCACTTCTACAATGCAGCCTGTGTTCTAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249		Qy         1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGGCCAGGGCACGGTGCTGCA 1669           Db         1505 GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCT           Qy         1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACAGCTCCCCCAACCTGATAGCTTGGTC           Db         1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC           Qy         1730 AGAACCAGCCATCCAGCCCCTACACACCTGCTATAAGCCCCCAAACCTCAGAGACTC           Db         1625 AGAACCAGCCATCCAGCCCTACACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC           T         1625 AGAACCAGCCACCCTACACACCCCGCTTCTTGAGGACTCTCTCAGGGACAGACC           T         1625 AGAACCAGCCACCCTACACACCCCGCTTCTTGAGGACTCTCTCAGGGACAGACC	RESULT 15 PCT-US95-07721-7 Sequence 7, Application PC/TUS9507721 GENERAL INFORMATION: APPLICANT: Massachusetts Institute of Technology TITLE OF INVENTION: Class BI and CI Scavenger Receptors MUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS: ADDRESSE: Patrea L. Pabst STREET: 2800 One Allantic Center STREET: 1201 West Peachtree Street CITY: Atlanta STATE: Georgia CITY: USA ZIP: 30309-3450	COMPUTER READABLE FORM:  MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA: PILLING DATE: PILLING DATE: ATTORNEY/AGENT INFORMATION: NAME: PADAE: PatentIN: REFERENCE/DOCKET NUMBER: 31,284 REFERENCE/DOCKET NUMBER: MIT6620 TELECHONE: (404) 873-8795 TELECHONE: (404) 873-8795 INFORMATION FOR SEQ ID NO: 7:
	350 GTCCGTCTACTTCTTCGAGGGGGCTCAATCCCCAGGGGGGGTGAGAGCCGGT 409			00   00   00   00   00   00   00   0

1009

904

949 844 1069

1129

964

1024

1189

1249 1144 1309

```
1505 GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGAAGCCAAGCTGTAGGGTCCCAAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                1145 AAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACTGTTC 1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1625 AGACCAGCCAACCCAGTCCTACAACCCGGTTCTTGAGGACTCTCTCAGGGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cagccaggagaarigcrrrrrgrrrrggagrggragraaaaagggcrcccaggaraagga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TIGECATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACTT
                                                          CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                      1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA
                                                                                                                                    905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                  1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCAACCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                     TACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                                                                                                                                                                                                                                                       1190 TCACTICTACAATGCAGACCCTGTGCTATCAGAAGCCGTICTGGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                    1085 CCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                  AAGGGAGCATTCTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                1205 TGTGAAGATGCAGCTGAGCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCCTGAGGACCGCTTCTACACGCAGCTGCTGATGCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTATGTGCTGCTGGGGCTGGGCGGCCTCCTGCTGGTGCCCCGTCATCTACCAGTTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATT
                                                                           1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC
                                                                                                                                                                                                                                                                         1025 gréredearreagaarereadacacerdeagerregregedecerererrererecedede
                                                                                                                                                                                                                                                                                                                                                                                                                             TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    completed: February 23, 2006, 18:13:43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Search completed: Februa
Job time : 310.759 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1670
890
                             785
                                                           950
                                                                                         845
                                                                                                                                                                                                              965
                                                                                                                                                                                                                                                                                                                                                                    1250
                                                                                                                                                                                                                                                                                                                                                                                                                                1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                         셤
                                                          ઠે
                                                                              셤
                                                                                                            ð
                                                                                                                                            g
                                                                                                                                                                               ò
                                                                                                                                                                                                        g
                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                            ₹
                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     784
                                                                                                                                                                                                                                                                                                                      169
                                                                                                                                                                                                                                                                                                                                                                                  229
                                                                                                                                                                                                                                                                                                                                                                                                                                              289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      365 CAATGACAACGACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                484
                                                                                                                                                                                                                                                                                                                                                                                                                124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTT 349
                                                                                                                                                                                                                                                                                                                                                   64
                                                                                                                                                                                                                                                                                                                                                                                                                                                            125 GGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         425 GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGAATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                      CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                590 AGTAATGAAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGCCTGTTTGTTGGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                  TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATAGACCCGAGCCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                     110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGCCGCACACGCGGACATGGGCGCAGCGC
                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                             Length 1785
                                                                                                                                                                                                                                                                                          ;
0
       LENGTH: 1785 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 51..1577
OTHER INFORMATION: 1577 encode the amino acid sequence
OTHER INFORMATION: for the murine Scavenger Receptor
OTHER INFORMATION: Class BI."
                                                                                                                                                                                                                                                          Score 1369.8; DB 6; Length
Pred. No. 0;
0; Mismatches 192; Indels
                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 88.6%;
Matches 1485; Conservative
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                            PCT-US95-07721-7
                                                                                                                                                                                                                                                                                                                                                                                                                                             230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               770
                                                                                                                                                                                                                                                                                                                                                   'n
                                                                                                                                                                                                                                                                                                                                                                                                               65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           665
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                 8
```

```
February 23, 2006, 18:08:32; Search time 1477.24 Seconds (without alignments) 10008.973 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1032, Ap
Sequence 3, Appli
Sequence 90, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                       1 GCCACCTGCAGGCTACTGC.....CTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1
Sequence 3
Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                             Published Applications NA Main:*

1: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*

2: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*

3: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

4: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

5: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

6: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

7: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

8: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

10: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-322-281-564
US-10-152-319A-1909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -09-882-945A-285
-10-807-114-285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -10-276-774-1032
                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-024-396-3
US-10-648-593-90
                                                                                                                                                                                                                                                                        9793542 segs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -10-933-037-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-212-848-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -10-212-848-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                             OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                      IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                        US-08-765-108-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0
100.0
100.0
100.0
99.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99.9
80.6
776.6
76.6
76.6
69.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63.7
63.7
63.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
10:
                                                                                                                                                                          Perfect score:
                                                                                                                                                                                                                          Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1441.2
1413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1136.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1369.8
                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Result
                                                                                                                                                         ritle:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
```

Sequence 249, App	Sequence 11, Appl	Sequence 1424, Ap	Sequence 567, App	Sequence 115, App	Sequence 2, Appli	Sequence 11, Appl	11,	Sequence 247, App		Sequence 22308, A	Sequence 117, App		Sequence 11387, A	Sequence 11, Appl	Sequence 563, App	Sequence 107, App	Sequence 140, App	Sequence 12, Appl	206	Sequence 120, App	Sequence 2465, Ap	
US-10-775-920-249	US-10-794-198A-11	US-10:956-157-1424	US-10-322-281-567	US-10-210-172-115	US-10-494-555-2	US-10-313-641-11	US-10-428-551-11	US-10-775-920-247	US-10-775-920-248	US-10-450-763-22308	US-10-210-172-117	US-10-956-157-6659	US-09-918-995-11387	US-10-024-396-11	US-10-322-281-563	US-10-794-899-107	US-10-240-965-140	US-10-024-396-12	US-10-152-319A-2060	US-10-388-934-120	US-10-764-420-2465	
, ω	œ	σ	7	7	œ	9	9	æ	æ	φ	7	σ	m	9	7	7	9	9	,	9	9	
2566	2566	2566	3144	2628	1527	2751	2751	2751	2751	2650	1248	1400	444	719	84252	2329	3737	485	1938	2064	1988	
63.5	63.5	63.5	63.5	63.2	59.3	54.5	54.5	54.5	54.5	50.2	47.7	20.9	16.0	15.9	11.3	10.8	10.8	10.6	9.6	9.6	9.6	
1136.2	1136.2	1136.2	1135.4	1129.8	1059.8	974	974	974	974	897.2	852.2	372.8	286.8	285	2.01.8	193.8	192.6	189	171.8	171.8	171.6	
24	25	26	27	28	29	.30	31	. 32	33	34	35	. 36	37	38	39	40	41	42	43	44	45	

## ALIGNMENTS

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 CCTGAGCCCCGCGAGCCCGCACACGCGGACATGGGCGCCAGGCGCCAGGGCGCGCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180
                                                                                   APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptives And
FILLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILLE REFERENCE: MIT71500172
CURRENT APPLICATION NUMBER: US/09/148,012
CURRENT FILING DATE: 1998-09-04
EARLIER APPLICATION NUMBER: 60/057,943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GCCACCTGCAGGCCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 AGCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCGTTCTGTCGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTGGCGGTGGCCTCGTGGGCTGCTGCCTGTGCCTCTGGCTCTGGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
100.0%; Score 1788; DB 3; Length 1788;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1788; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
NAME/KEY: misc_feature
LOCATION: (156)...(1683)
OTHER INFORMATION: Encodes amino acid sequence for the Hamster
OTHER INFORMATION: Scavenger Receptor Class B-I
                   Sequence 1, Application US/09148012
Patent No. US20020099040A1
                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver.
SEQ ID NO 1
LENGTH: 1788
                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Hamster
JS-09-148-012-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-148-012-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
```

\$ B \$ B \$ B \$ B \$ B \$

a & a

8 6 6 6

3 B 3 B 3 B 3

	RESULT 2 US-10-178-611-1 i Sequence 1. Application US/10178611 i Sequence 1. Application US/10178611 i Publication No. US2003016/475A1 charter 1. None, VErieger, Attilio Rigotti, and Karen Kozarsky MITHE OF INTENTION:
141 TCCTCGTGATGCCCTCGATCAAACAGGGGTACTGAAGAATGTCCGCATAGACCCCA 300  141 TCCTCGTGATGCCCTCGCTCATCAAACAGGAGGTACTGAAGAATGTCCGCATAGACCCCA 300  152 TCCTCGTGATGCCTCGTCGATCGAAGGAGATCCTGAAGAATGTCCGCATAGACCCCA 300  153 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCTGACCTTCTACTTGTCCGTCTACT 360  154 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGAGGC 420  155 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGAGGC 420  156 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGAGGC 420  157 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCCAGTAGTGCGGAGGC 420  158 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGCCAGTAATGACAATG 480  159 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGCCAGTAATGACAATG 480  160 TTTTGTTGTTCTTTGTGGAGAATTCAGACATAAGGCCAACATCACTTCAATGAAAGGCGAGGCCAGCAGGTGAAAGAGTCCCACGGCT 540  161 TTTTTTTTTTTTTTTTTTTTTTTTCAGACATTAAAGGCCAACATCACTTCAAATGAATG	ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG TTGAGATGAACAACTCAGACTCTGGCTCTTCACTGTTGTTCACGGCGTCCAGAACTTCA TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGGTTTCACGGCGTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAGAACTTCACGGCTCCAAAATCACGACCTTCCAGGCTCACTACTACACGCACTTCATCACGGCTCCAAAACTTCAGGCACTTCCAGGCTCACTACTACTACACGCACTTCATGACACTCACT

8 8 6 8 6 8 6 8

m

Š

QQ

Š

셤

ठ

ò

엄

ò

요

8

ద

ò

요

ઠ

음

ઠે

g

8

유 8 유 ò 셤 8 g ò

ð

```
APPLICANT: Krieger, Monty
PEDLICANT: Miettinen, Helena
TITLE OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY
FILE REFERENCE: MIT 9094
                                                                                                                                                                                                                           1080
                                                                                                                                                                                                                                                             1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1740
                   900
                                                     960
 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                           AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAGCTCACCCTACCATG
                                                                                                                                                                                                              1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1441 CGTTCTACACGCAGCTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1081 CCAATGGGTCTGTTTACCCACCCATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                               1141 AAAATGTCAGCTTTGCAGGTTTGGTGCACCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                    1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1261 CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1501 TGGGGCTGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1561 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                               AAAATGTCAGCACTTTGCAGGTTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGTAGGGTCCCAAAAACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC
                                                                                                                                                                                                                                                           CCAATGGGTCTGTTTACCCACCCAATGAAGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1, Application US/10164863; Publication No. US20030232879A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 3
US-10-164-863-1
                                                                                     901
                                                                                                                                                       961
                                                                                                                     961
                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1741
                                                                                                                                                                                                                                                           1081
                                                                                                                                                                                                                                                                                                                               1141
                                                                                                                                                                                                                                                                                                                                                                                                   1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681
                                                     901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1381
                                                                                   g
                                                                                                                                                     ద
                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                 쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                   셤
                                                   8
                                                                                                                   8
                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ∙ &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                   LOCATION: 156.71683
OTHER INFORMATION: /function= "Nucleotides 156 through 1683
encode the amino acid sequence for the Hamster Scavenger Receptor Class
                                                                                                                                                                                                                                             ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTGCTCTCTGTCGCCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     841 GCAAGATCCACCTGGTGGACAGATGGAATGGCTCAGCAAGGTCAACTACTGGCATTCAG 900
                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTGAGCCCCGCGAGCCCGGGACCACGCGGACATGGGCGCGCAGCGCCAGGGCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTGGCGGTGGGCGTCGTGGGCCTGTGCTGTGCTGTGCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTGGCGTGGGCTGGGCTGTGGGCTGTGTGCTGTGCTCTGGGTGTGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTGTGTTTTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTITATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rreagargaacaacrcreegcrcrrcacrergrerrcacegcgrccagaacrrca
                                                                                                                                                                                                                                                                           GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCT
                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                       Length 1788,
                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                           9
                                                                                                                                                                                                           B
                                                                                                                                                                                                       Query Match

100.0%; Score 1788;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1788; Conservative 0; Mismatches
                                                                                                                                                     SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                 NAME/KEY: misc_feature
LOCATION: 156..1683
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
                                                                                                                                                                       US-10-178-611-1
                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     781
```

```
1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGTAGGGTCCCAAAGACACCACCAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                            CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1260
                                                                                                                                                                                  900
                                                                                                                                                                                                                              960
                                                                                                                                                                                                                                                                         960
         780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1381 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCTGAACA
         ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                           TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGGTCCAGAACTTCA
                                                                                                                                       GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                AGICCICGCIGGAAITCIICAGICCGGAAGCCIGCAGGICIAIGAAGCICACCIACCAIG
                                                                                                                                                                                                                                                                                                                                                                                                                              1141 AAAATGICAGCACTIGCAGGTTIGGTGCACCCCTGTTTCTGTCACACCCTCACACACTTCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAGAGCAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1501 TGGGGCTGGCGCCTCCTGCTGCTGCTGCTCTACCAGTTGCGCAGCAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCCACGGTGCTGCAAGAAGCCAAGC
                                                  TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                              AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                          CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGGGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 4
US-10-706-073-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1691
                                                                                                                                                                                                                              901
                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                            196
                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1681
                                                                                             781
                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                     196
                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                ò
                                                                                       g
                                                                                                                                       ò
                                                                                                                                                                           엄
                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 중 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                         ਹ
                                                                                                                                                                                                                                                                                                                                         the Hamster Scavenger Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 GGGTGGCGGTGGGGCGTCGTGGGGCTGTGTGCTGTGCGTTGGGTTGTGA 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301 GCAGCCTGTCCTTTGCAATGTGGAAGAGCGGATCCCTGTACCTTCTACTTGTCCGTCTACT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACATG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 TCCTCGTGATGCCCTCGCTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATCACCTTGGGGCTGGCCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTGAGCCCCGCGAGCCGGGCGGCACACGCGGACATGGGCGGCCCCCCAGCGCGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATACTGTGTGCTTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACTGTGTCCTTTGTGGGACCGCACCCCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTGGCGGTGGGCGTCGTGGGCCTGCTGTGCGCTGTGTGCTCGGTGTGGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                         TYPE: DNA

PGRANIEM: Cricetulus griseus

PERTURE:
NAME/KEY: misc feature
LOCATION: (155)...(1683)

OTHER INFORMATION: Encodes amino acid sequence for the content of the co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
9
                                                                                                                                                                                                                                                                                                                                                                                                                                 DB
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
100.0%; Score 1788;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1788; Conservative 0; Mismatches
CURRENT APPLICATION NUMBER: US/10/164,863;
CURRENT FILING DATE: 2002-10-01
PRIOR APPLICATION NUMBER: US 09/148,012
PRIOR FILING DATE: 1998-09-04
PRIOR FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
```

g 8 셤 ò g ò g ઠે 유 8 윉 ò g

ઠે

셤 6 g ઠે 셤

ð

3 8 8 6

OY   GET   GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA 720   GET   GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA 720   GTGCCTTTATGAACAGACTGAACATCCCCATCCAAGAGGCAAGTTCGGCCTGTTTG 780   TTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG 780   GTTTATATCAACAAATACTTACCAGACATGTTCCCCATCAAGGCCAAGTTCGGCCTGTTTG 780   GTTTATATCAACACACAGACTCTGGGCTTCCCATCAAGGCCAAGTTCGGCCTGTTTG 780   GTTTATATCAACACTCAGACTCTGGGCTTCCCAATCAAGGCCAAGTTCAGAACTTCA 840   GTTTATATCAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA 840   GTTTATATCAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGAACTTCAGAACTTCAGAACTTCAGAACTTCAGAACTCAGAACTCAGAACTCAGAACTCAGAACTCAGAACTCAGAACTCAGAACTCAGAACTCAGAACTTCATGAACACTCAGAACTCAGAACTCAACAAGATCAACAAGATCAACAAGATCAACAAGATCAACAAGATCAACAAGATCAACAACAAAGATCAACAACAAAGATCAACAACAAAGATCAACAACAACAAAGAACAAAAAAAA	1021 ATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTTG	Oy         1501         TGGGGCTGGTGGTGGTGGTGGTGCTCCAGGTACTTCAGTATGTGCTGC 1500           Db         1441         CGTTCTACACGCAGCTGGTGGTGCTCCAGGTATTCAGTATGTGCAGTATTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Sequence 1, Application US/10706073 Publication No. US20040077526A1 APPLICANT: Krieger, Monty TITLE OF INVENTION: TITLE OF INVENTION: FILID DATE: 2013-11-12 RIGHERIA PAPLICATION NUMBER: US/10/706,073 CURRENT PAPLICATION NUMBER: US/10/706,073 FILID BATE: 2003-11-12 RIGHERIA APPLICATION NUMBER: 09/148,012 RRICH APPLICATION NUMBER: 09/148,012 RRICH APPLICATION NUMBER: 09/057,943 RRICH APPLICATION NUMBER: 00/057,943 RRICH APPLICATION NUMBER: 00/057,943 RRICH APPLICATION NUMBER: 00/057,943 RRICH APPLICATION NUMBER: 00/057,943 RRICH FILING DATE: 1997-09-05 NUMBER OF SEQ ID NOS: 9 SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 1 LENGTH: 1788 RTYPE: DNA ORGANISM: Hamster FEATURE: NAME/KEY: misc feature FEATURE: NAME/KEY: misc feature COCATION: (156)(1683) OTHER INFORMATION: Scavenger Receptor Class B-I	100.0\$;   Score 1788;   DB 7;   Length 1788;	TCTTCGAGGTGGTCATCCCAGCGGGATCCTAAAGGGTGGAGAGCCAGTAGTGCGGGAGGTGGTGGTGCGCGAGGTGGTGGTGGTGGCGGGAGGTGGTGGTGGTGGTGGCGGGAGGTGGTGGTGGTGGTGGCGGGAGGTGGTGGTGGTGGCGGGAGGTGGTGGTGGTGGTGGCGGGAGGTGTGTGT

G

셤

```
1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1261 CTTTGTTCCTTGACATCCCATCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                  540
                                      300
                                                                                                             360
                                                                                                                                                360
                                                                                                                                                                                    420
                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                            600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             901 AGCACTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC 960
 240
                                                                         300
                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                              600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841 GCAAGATCCACCTGGTGGACAGATGGATGGGCTCAGCAAGGTCAACTACTGGCATTCAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAATGTCAGCACCTTGCAGGTTTGGTGCACCCTGTTTCTGTCACACCCTCACTTCTACA
181 GGGTGGCGGTGGGCCTGGCGTCGTGCGCTGTGCCTGTGCCTGTGCTTATGA
                                                           TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                              301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                        ATACTGTGTCCTTTGTGGAGCACCCCCCATTTCCAGCCGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                             creagagreacracarraracreccraacarreregrerregeeeeeeeeararearee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAATGGGTCTGTTTACCCACCCATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCCATGAACTGTTCTGTGAAGTTGC
                                      TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                             GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                         rerredaderedreareceadedadarecraaadegreadaageedagragreedgadee
                                                                                                                                                                                                                                                             GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                  GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                    ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u> AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACTTGGGGGCTGGCCACCTTGGGCCAGC</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                      TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1201
                                                                          241
                                                                                                             301
                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1261
                                      241
                                                                                                                                                                                    361
                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                  ઠે
                                                                       셤
                                                                                                           δ
                                                                                                                                          ద
                                                                                                                                                                                8
                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                             ઢ
                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc feature
LOCATION: 156.71683
OTHER INFORMATION: /function= "Nucleotides 156 through 1683
encode the amino acid sequence for the Hamster Scavenger Receptor Class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTGAGCCCCGCGGCCCGCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 GCCACCTGCAGGCTACTGCTCCGGCCACTGCCTGAGACTCCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGTGGCGTGGGCGTCGTGGGGCTCGTGTGCGCTGTGCTCGGTGTGGTTATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCCACCTGCAGGCTACTGCTGCTCCGGCCACTGCGTGAGACTCACCTTGCTGGAAGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                      l Karen Kozarsky
CHOLESTEROL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                     1741 CCAGCCCTACACCCCGGTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 1788;
                                                                                                                       Sequence 1, Application US/10933037
Sequence 1. Application US/10933037
Publication No. US20050136005A1
GENERAL INFORMATION:
APPLICANT APPLICANT SET OF SEQUENCES:
TITLE OF INVENTION: WETHODS FOR MODULATION OF CHOLESTEROI NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSE: Patrea L. Pabst, Arnall Golden & Gregory STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                           CITY: ALIAN ASSET RECONTRY: CONTRY: CONTRY: USE GEORGIA COUNTRY: USE GEORGIA COUNTRY: USE GEORGIA COUNTRY: USE GEORGIA COUNTRY: USE GEORGIA COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk COMPUTER: IDEN Compatible COMPUTER: IDEN COMPATIBLE OF STEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/933,037 FILING DATE: 02-Sep-2004 CLASSIFICATION: CURRING ATTORNEY/AGENT INFORMATION:
NAME: Pabbet, Patena L.
RECISTRATION NUMBER: 31,284
RESTREMENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
100.0%; Score 1788;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1788; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-933-037-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (404) 873-8794
TELEPAK: (404) 873-8795
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
                                                                                                             US-10-933-037-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                              RESULT
```

ઠ ď ò 원 ઠે 셤 8.

셤 ŝ 원 ઠે 셤 ò 셤 셤

ઠે

셤

ò

셤

ò

ò

ਨੇ 셤 È ò

```
1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCTGTTTCTGTCACACCCTCACTTCTACA 1200
                                                                                                                             300
                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               960
                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                  421 GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AIGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGCAGCATT
181 GGFIGGCGGTGGGCGTCGTGGGGCTTGTGCTCTGTGCTCTGTGCTGTGTGTTATGA
                                                                                                                           TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                        361 TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                           481 ATACTGTGTCCTTTGTGGAGCACCGCACCCCTTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661 GTGCCTTTATGAACCGAACAGTTGGTGGGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                     241 TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGGGGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAAGATCCACCTGGTGGACAGATGGATTGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901 - AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                   GCAGCCTGTCCTTTGCAATGTGGAAGGAGTCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                   301 GCAGCCTGTCCTTTGCAATGTGCAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                             GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                    ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACA
                                                                                                                           241
                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1201
                                                       181
                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1141
                                                                                                                           ò
                                                                                                                                                          셤
                                                                                                                                                                                                                               쉽
                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                      ð
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                         1440
                                                                                                                           1440
                                                                                                                                                              1500
                                                                                                                                                                                                                                                                                                        AATGCTTTTTATTTTGGAGTGGTAAAAAGGGCTCGCAGGATAAGGAGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                            1620
                                                                                                                                                                                                                                                                                                                                                                                                                    1680
                                   CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 AGCCTCGGCTTCTGTCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 CCTGAGCCCCGCGAGCCCGGCCGCACACGCGGACATGGGCGGCGAGGCCCAGGGCGCGCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                               TGGTCCTCCCATTGTGGTTTTGAGCAGAGGGGTGCCATGGGCGGGGAGCCCCTGAACA
                                                                                                                                                                                                                                                      1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCACCTGCAGGCCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAAACGTG
                                                                                       TGGTCCTCCCATTGCTGTGGTTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                            CGTTCTACACGCAGCTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                   CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Acton, Susan L.
APPLICANT: Acton, Susan L.
APPLICANT: Ordovas, Jose M.
APPLICANT: Ordovas, Jose M.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILE REFERENT APPLICATION NUMBER: US/09/779,152
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: 08/890,979
PRIOR APPLICATION NUMBER: 08/890,979
PRIOR FILING DATE: 1997-07-10
NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3; Length 1825;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 99.9%; Score 1786; D
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3, Application US/09779152
Publication No. US20030044782A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ORGANISM: Human
| FEATURE:
| NAME/KEY: CDS
| LOCATION: (156)..(1682)
| US-09-779-152-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 6
US-09-779-152-3
                                                    1321
                  1321
                                                                                       1381
                                                                                                                         1381
                                                                                                                                                              1441
                                                                                                                                                                                              1441
                                                                                                                                                                                                                                 1501
                                                                                                                                                                                                                                                                     1501
                                                                                                                                                                                                                                                                                                        1561
                                                                                                                                                                                                                                                                                                                                          1561
                                                                                                                                                                                                                                                                                                                                                                             1621
                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
```

ω

```
901
                                 61
                                                                           121
                                                                                                 181
                                                                                                                      181
                                                                                                                                                                241
                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081
            61
                                                      121
                                                                                                                                            241
                                                                                                                                                                                      301
                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                        481
            ò
                             셤
                                                    ઠ
                                                                     셤
                                                                                          ઠ
                                                                                                                   g
                                                                                                                                           ઠ
                                                                                                                                                            셤
                                                                                                                                                                                  ò
                                                                                                                                                                                                       g
                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                     1500
                                                                 1380
                                                                           1440
                                                                                                                      1381 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGAGCCCCTGAACA 1440
                                                                                                                                                                  AATGCTTTTTTTTTGGAGTGGTAGTAAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                        1561 AATGCTTTTTTTTTTTGGAGTGGTAGTAAAAGGGCTCGCAGGATAAGGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                       CCTACTCTGAGCTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                      1740
1201 ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                TGGGGCTGGGCGTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCCACCTGCAGGGCTACTGCTGCTCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                              TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT
                                                                                                                                                     CGTTCTACACGCAGCTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                            TGGTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1825;
                                                                                                                                                                                                                                                                                                                                                                          CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                       1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USES THEREFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .,
S
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 3, Application US/10023610
| Publication No. US20030023059A1
| GENERAL INFORMATION:
| APPLICANT: Acton, Susan L.
| TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USE
| FILE REFERENCE: MIA-005.03
| CURRENT APPLICATION NUMBER: US/10/023,610
| CURRENT FILING DATE: 2001-12-17
| EARLIER FILING DATE: 2000-10-10
| EARLIER FILING DATE: 1998-02-27
| EARLIER APPLICATION NUMBER: 09/032,894
| EARLIER APPLICATION NUMBER: 09/032,894
| EARLIER APPLICATION NUMBER: 08/890,980
| SARILER APPLICATION NUMBER: 08/890,980
| SARILER APPLICATION NUMBER: 08/890,980
| SARILER FILING DATE: 1997-07-10
| SOFTWARE: PATENTING DATE: 1997-07-10
| SEQ ID NO 3
| LENGTH: 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
99.9%; Score 1786; D
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; NAME/KEY: CDS
; LOCATION: (156)..(1682)
US-10-023-610-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Human
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 7
US-10-023-610-3
                     1261
                                                               1321
                                                                                                           1381
                                                                                                                                                     1441
                                                                                                                                                                                                1501
                                                                                                                                                                                                                                            1561
                                                                                                                                                                                                                                                                                       1621
                                                                                                                                                                                                                                                                                                            1621
                                                                                                                                                                                                                                                                                                                                                      1681
                                                                                                                                                                                                                                                                                                                                                                            1741
                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                         g
                                                                              g
                                                                                                          Š
                                                                                                                            셤
                                                                                                                                                ઠે
                                                                                                                                                                      셤
                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                          ઠે
                     ઠે
                                                              Š
```

1020 CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140 960 960 120 180 180 240 240 300 360 360 420 480 540 540 600 999 99 720 780 840 840 900 900 300 420 480 600 720 780 901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCC CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 841 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCTT GGTGGCGGTGGGGCTCGTGGGGCTGCTGTGCCTGTGCTCTCGCTGTGGTTATGA TCCTGGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGGCATAGACCCCA GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT TCTTCGAGGTGGTCATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG ATACTGTGTCCTTTGTGGAGCACCCCGCAGCCTCCATTTCCAGCCGACAGGTCCCACGGCT AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACTTGGGGCTGGCCACCTTGGGCCAGC AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC GIGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA ATTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG 721 ATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG 781 TIGAGATGAACCAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGCGTCCAGAACTTCA GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC AGTOCTOGOTOGOAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG GCAGCCTGTCCTTTGCAATGTGGAAGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCGACATCACCTTCAATGACAATG ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGCTT GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCCTATGAGGATCCCTTCGTGA TTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA

Db 1 GCCACCTGCAGGGCTACTGCTCCGGCCACTGCTGAGACTCACCTTGCTGGAACGTG 60	Oy 61 AGCCTCGGCTTCTGTCAGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120	Oy 121 CCTGAGCCCGGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGCGCGCT 180	Oy 181 GGGTGGCGGTGGGCGTCGTGGGCTGTGCCTGTGCTCGTGGTG	Qy 241 TCCTCGTGATGCCCTCGTCATCAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300  Db 241 TCCTCGTGATGCCTCGTCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA 300	Oy 301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT 360  Db 301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT 360		421 GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG	Oy 481 ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCAGGGCT 540	Qy 541 CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGG	Qy 601 AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCCCCTTGGGCCAGC 660	OY 661 GTGCCTTTATGAACGAACAGTTGGTGAGAGTCCTGTGGGGCTATGAGGATCCCTTCGTGA 720	Oy 721 ATTITATCAACAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG 780	Oy. 781 TIGAGATGAACACACACTCTGGGCTCTTCACTGTGTTCACGGCGTCCAGAACTTCA 840	OY 841 GCAAGATCCACCTGGTGGACAGATGGGATCAGCAAGGTCAACTACTGGCATTCAG 900	OY 901 AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCCC 960	OY 961 AGTCCTGGTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG 1020	Oy 1021 ATTCAGGGGTGTTTGAAGGCATCCCCACTATCGCTTCACAGGCCCCTAAAACTTTGT 1080	Oy 1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCGTGCCTTGAATCCGCGTTC 1140
Oy 1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200	GCATT 	CTTTGTTCCTTGACATCCATCGGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGC	AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGGAAACAGGAAGATCGAGCCCG	GAACA	Qy         1441 CGTTCTACACGCAGCTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC         1500           Db         1441 CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTCAGATATGTGTGTG	GGAGA        GGAGA	OY 1561 AATGCTTTTATTTGGGGTGGTAAAAAGGGCTCGCAGGATAAGGAGCCATTCAGG 1620	Qy         1621 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAGGGCACGGTGCTGCAAGAAGCCAAGC 1680           Db         1621 CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGAGGCAAGAAAGCCAAGAAGCCAAGAGCCAAGAAG	TGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 	OY 1741 CCAGCCCTACACCCGGTTCTTGAGGACTCTCTCAGGGGACAGTC 1786	RESULT 8	; Sequence 3, Application US/10212848 ; Publication No. US20040023225A1 ; GENERAL INFORMATION:	AFFICANT WCLARING METHODS AND COMPOSITIONS FOR IDENTIFYING RISK FACTORS; TITLE OF INVENTION: FOR ABNORMAL LIPID LEVELS AND THE DISEASES AND DISORDERS; TITLE OF INVENTION: ASSOCIATED THEREWITH	; CURENT APPLICATION NUMBER: US/10/212,848 ; CURRENT FILING DATE: 2002-08-05 ; NUMBER OF SEQ ID NOS: 121	SEQ ID NO 3 LENGTH: 1825 TYPE: DNA	; CRAINISM: NOME BAPTELLS ; NAME/KEY: CDS ; LOCATION: (156)(1682)	Ju-ziz-048-5  Query Match 99.9%; Score 1786; DB 7; Length 1825;  Best Local Similarity 100.0%; Pred. No. 0;  Astrhea 1786; Craesvistive 0. Migmatches 0. 1743-10 0. Craes	matches 1/00; Conservative 0; mismatches 0; indels 0; Gaps 0;  Qy 1 GCCACCTGCAGGGCTACTGCTGCTGCTGCCTGAGACTCACTTGCTGGAACGTG 60

유

ద

8

셤 ò

Š

g

ò

a

8

g ò 셤 ઠે g ò 셤 ò 셤

ઠે

```
1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              997
                                                                 180
                                                                                          217
                                                                                                                      240
                                                                                                                                                                         300
                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                             600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          937
                                      157
                                                                                                                                               277
                                                                                                                                                                                                  337
                                                                                                                                                                                                                                                      397
                                                                                                                                                                                                                                                                                                         457
                                                                                                                                                                                                                                                                                                                                                              517
                                                                                                                                                                                                                                                                                                                                                                                                                   577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCAACGGGTCCGTCTACCCACCAAGGAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    938 AGCAGTGTAAACATGAATCAATGGGACTTCCGGGCAGATGTGGGGCACCCTTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       998 AATCCTCGCTGGCAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            878 GCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACCATTCATGACACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961 AGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATG
                                                                                                                                                                                                                                                                                                                                                                                        818 TTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCCGATACTCTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                  CCTGAGAGCCCCGAGAGCCCCTTCCGCGCACAGGGGGGGCGGCAGCTCCAGGGCGCCCT
                                                                                                                                     TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCCA
                                                                                                                                                                                           GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                   GTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGCAGTAATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGCTCGATATTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGATCCCTTCGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGCTTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGATCCCTTCGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTITATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGAGATGAACAACTCAGACTCTGGGCCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                      CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCTT
                                                                                                                      TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                   518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1058
                                        66
                                                                 121
                                                                                           158
                                                                                                                    181
                                                                                                                                               218
                                                                                                                                                                           241
                                                                                                                                                                                                    278
                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                        338
                                                                                                                                                                                                                                                                                                          398
                                                                                                                                                                                                                                                                                                                                                               458
                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1118
                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     661
               61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
               ઠે
                                    g
                                                                 ò
                                                                                    g
                                                                                                             ò
                                                                                                                                            요
                                                                                                                                                                         ઠે
                                                                                                                                                                                              g
                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                        ठ
                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                        1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC 1140
                                                    1200
                                                                               1260
                                                                                                        1260
                                                                                                                                  1320
                                                                                                                                                             1320
                                                                                                                                                                                       1380
                                                                                                                                                                                                                 1380
                                                                                                                                                                                                                                            1440
                                                                                                                                                                                                                                                                     1440
                                                                                                                                                                                                                                                                                             CGTTCTACACGCAGCTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                 AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1680
                                                                                                                                                                                                                                                                                                                                                   TGGGGCTGGGCGCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98
                                                                                                                                                                                                                                                                                                             CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCACCTGCAGGCTACTGCTCCGGCCACCGCCAGGCACACACCTTGCTGCTGAGGG
                                                                                                                                  CTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGCTGTGAAGTTGC
                                                                                                                                                                                                     1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                                             ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                           crrrgrrccrrgacarccarccacrcacacacacacacarcarcarcrararacacaraca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGG
                                                1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA
                                                                               ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                       AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                           TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2496;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Methods in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 1441.2; DB 7;
Pred. No. 0;
0; Mismatches 208;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 564, Application US/1032281
Publication No. US20040126762A1
GENERAL INFORMATION:
APPLICANT: David W. Morris
APPLICANT: David W. Morris
APPLICANT: David W. Morris
FILE REPERENCE: 52945201010
CURRENT APPLICATION NUMBER: US/10/322,281
CURRENT FILING DATE: 2002-12-17
NUMBER OF SEQ ID NOS: 866
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 88.3%;
Matches 1577; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: DNA
; ORGANISM: Mus musculus
US-10-322-281-564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-322-281-564
                                                                               1201
                                                                                                        1201
                                                                                                                                  1261
                                                                                                                                                             1261
                                                                                                                                                                                       1321
                                                                                                                                                                                                                1321
                                                                                                                                                                                                                                           1381
                                                                                                                                                                                                                                                                    1381
                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                        1441
                                                                                                                                                                                                                                                                                                                                                 1501
                                                                                                                                                                                                                                                                                                                                                                            1501
                                                                                                                                                                                                                                                                                                                                                                                                      1561
                                                                                                                                                                                                                                                                                                                                                                                                                                 1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       39
```

8 8

ą,

ਨੇ

유

셤

ઠ

8

셤

ઠે

ò

```
120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               827
PRIOR FILING DATE: 2001-08-28
PRIOR APPLICATION NUMBER: US 60/324,928
PRIOR PILING DATE: 2001-09-27
PRIOR PILING DATE: 2001-10-01
PRIOR PLICATION NUMBER: US 60/330,867
PRIOR PLICATION NUMBER: US 60/330,462
PRIOR FILING DATE: 2001-110-02
PRIOR FILING DATE: 2001-110-22
Remaining Prior Application data removed - See File Wrapper or PALM.
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1909
LENGTH: 2497

"Wing: NAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  288 TTCTCATGGTGCCCTCGCTCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 AGCCTCGGCTTCTGTCATCTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           112 ---CTCGGTTTCTGTCATCTCTGTGGCCTCCGTCGCCTCTGTTGCCCGT-CCCCTTCAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        228 degredectrigadacridadecircradadecrecriariardecrecercadecirarararara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   348 GCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              768 ATTTCCTCAGCAAATATTTCCCAGACATGTTCCCCATCAAAGGCAAATTTGGCCTGTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 GTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              468 GCGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCACCTTCAATGACAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           648 AGGACAAAGCCCACAAAGCCTGCTAATGACCTTGGGTTTGGTCACCATGGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              708 GGCCTTTATGAACCGCACGGTTGGTGAGATCCTGTGGGGCTACGAAGATCCCTTTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 GCCACCTGCAGGGCTACTGCTGCTCCGGCCACTGCCTGAGACTCACCTTGCTGGAACGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             168 CCTGAGCCCAGCGACTCTCGGCCGCGCACGCGACATGGGCGTCAGCTCAGGGCACGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 GCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTTGTCCGTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 ATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       588 CAGAGAGTGACTACATTGTACTGCCTAACATCCTGGTCCTGGGAGGGGCAGTGATGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCACCTTGGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 CCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGGACATGGGCCGGCAGCGCCAAGGGCGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGTGGCGGTGGGCCTGGGCGTCGTGGGGCTGTGCGCTGTGCTCGGTGTGTGTTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 79.0%; Score 1413; DB 7; Length 2497; Best Local Similarity 87.9%; Pred. No. 0; Matches 1567; Conservative 0; Mismatches 205; Indels 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   59 eccaccirecadederaciecreciereresceaciareadecacacacacerrecie
                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Genbank Accession No. NM_031541
US-10-152-319A-1909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                       1260
                                                                                                                                                                                                   1320
                                                                                                                                                                                                                                                                                              1380
                                                                                                                                                                                                                                                                                                                                                                                          1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1560
         1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200
                                                        1237
                                                                                                                                                    1297
                                                                                                                                                                                                                                             1298 ccrigircciadacarccarccacracacacacacarcarcarcarcrarananas 1357
                                                                                                                                                                                                                                                                                                                     1477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AATGCTTTTTATTTTGGAGTGGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1681 TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1418 TAGTICTGCCGTIGCTTGGATCGAACAGAGCGGAACAATGGGTGGCAAGCCCCTGAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .658 CCTACTCTGAGTCCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCTGCAAGAAGAAGCCAAGC
                                                                                                     ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT
                                                                                                                                                                                                   CTGTGAAGTTGC
                                                                                                                                                                                                                                                                                            1321 AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG
                                                                                                                                                                                                                                                                                                                                                                                       1381 TGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGGCGAGCCCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    certetacacecacerestectearececacatretreareacececagnarerece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGGGCTGGCGCCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AATGCTTTTTGTTTTGGAGTGGTGGTAAAAAGGGCTCCCAGGATAAGGAGGCCATTCAGG
                                                                                                                                               1238 AcGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATT
                                                   1178 AGAATGTCAGCACCTGCAGGTTTTGGTGCGCCTCTGTTTCTCTCCCACCCCCACTTTTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1741 CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1778 ccaercccracaccccecrrcrreaeaacrcrcrcaeceaacaecc 1823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Johnson, Kory
APPLICANT: Johnson, Kory
APPLICANT: Higgs, Brandon
APPLICANT: Gastle, Arthur
APPLICANT: Gastle, Arthur
APPLICANT: Blashoff, Michael
TITLE OF INVENTION: Molecular Toxicology Modeling
FILE REFERENCE: 44921-5089-US
CURRENT APPLICATION NUMBER: US/10/152,319A
CURRENT APPLICATION NUMBER: US/0292,335
PRIOR APPLICATION NUMBER: US 60/297,523
PRIOR FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: US 60/297,523
PRIOR APPLICATION NUMBER: US 60/297,523
PRIOR APPLICATION NUMBER: US 60/293,925
PRIOR FILING DATE: 2001-06-19
PRIOR FILING DATE: 2001-06-19
PRIOR FILING DATE: 2001-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US 60/303,807
PRIOR FILING DATE: 2001-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2001-07-10

PILING DATE: 2001-07-10

FILING DATE: 2001-07-10

APPLICATION NUMBER: US 60/315,047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1909, Application US/10152319A Publication No. US20040072160A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Mendrick, Donna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Porter, Mark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -10-152-319A-1909
                                                                                                     1201
                                                                                                                                                                                              1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
```

ò 셤 ઠ And

a

원

8

. අු

ò g ઠે ď ઠ 용 ઠે 셤 ò a ò 윰 ઠે ద ઠે 셤 ò d Š 음 중 셤

쉱 ò

δ

```
CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         485 GATATTGATGGAGAGAGAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   545 CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               590 AGTAATGATGGAGGGAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                        GENERAL INFORMATION:
APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptives A
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REFERENCE: MIT7150CIP2
CURRENT APPLICATION NUMBER: US/09/148,012
CURRENT FILING DATE: 1998-09-04
EARLIER APPLICATION NUMBER: 60/057,943
EARLIER APLICATION DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   créciricaderecréadececentrececentéedecardesecentes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      125 cerrercarearcercarecrecerecercareaacaecaegreercaagaarereee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATAGACCCGAGCCGTGCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCTGTCTACTTCTTCGAAGTGGTCAACCAAACGAGGTCCTCAACGACGCCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  caarigacaacgacaccererecrireregagaaccecaecerecarrirecaecereaeaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GICCCACGCCICTGAGAGIGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             170 cagacacacracaracacacracacacracacararacacaracacararacacaraca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTGCGGGAGCGTGGACCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:

NAME/KEY: misc_feature

LOCATION: (51)...(1577)

OTHER INFORMATION: Encodes the amino acid sequence for the configuration of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 76.6%; Score 1369.8; DB 3; Best Local Similarity 88.6%; Pred. No. 0; Matches 1485; Conservative 0; Mismatches 192;
US20020099040A1
                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ŋ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1680
                                                                                                                                                                                                                                                                                                                                                                               1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCAACGGGTCCGTCTACCCACTAATGAAGGCTTCTGCCCGTGCCGCGAGTCCGGCATTC 1187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGTCCTCCCATTGCTGTGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCAGTATGTGCTGC 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATGCTTTTTTATTTTGGGGTGGTAGTAAAAGGGCCTCGCAGGATAAGGAGGCCATGCAGG 1667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCAT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1007
                                                                                                                                                                                                                                                                                                                                                                                                                                     .008 AATCCTCACTGGAATTCTTCAGCCCAGAAGCCTGCAGATCTATGAAGCTCACCTACCAGG 1067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1141 AAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATT 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTTGTICCTTGACATCCATCCGGTCACTGGGGATCCCCATGAACTGTTCTGTGAAGTTGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGGGGCTGGGCGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCAGGAGA 1560
                                                                                                                                                                                                                                                                AGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATTCATGACACCCC 960
                                 840
                                                                                                                                                900
                                                                                                                                                                                                      947
                                                                                       887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAGTCCTGCCATTGCTGTGTGTTCGAACAGAGCGGGATGATGGTGGCTGCAAGAGCCTGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCTGAGTCTGTACATCAAATCCGTCAAGGCGTCGGGCAAACAGGGAAGATCGAGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGAGGCCATTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTACTCTGAGTCTCTGATGTCACCAGCTGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTACTCTGAGTCTCTGGATGTCACCAGCTGCCAAGGGCACGGTACTGCAAGAAGCCAAGC
                                                                                                                                                                                                                                                                                              AACAGTGCAACATGATCAATGGTACTGCCGGGCAGATGTGGGGCACCATTCATGACACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTTGTTCCTAGACATCCACCCGGTCACTGGGATCCCCATGAACTGTTCCGTGAAGATGC
                                                                     GCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAG
                                                                                                                                                                                    GCAAGATCCATCTGGTGGATAAGTGGAACGGCCTCAGCGAGGTCAACTATTGGCATTCGG
                                 TTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081 CCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTCCCTACACCCCACTTCTCGAGGACTCTCTCAGCGGACA 1830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACA 1783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1741
                                                                                                                                                                                                         888
                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                         948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1788
                              781
                                                                                                                                                841
                                                                                                                                                                                                                                                                                                                                                                                  961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1261
```

ö

169

64

229

124 289 184 349

409

304

244

469

364

529

424

589 484 649 544 709 769

604

829

770 CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGT

ò

RESULT 11 US-09-148-012-3 ; Sequence 3, Application US/09148012

RESULT US-09-1

8 6 Š 셤

```
CUTHER INFORMATION: /Function = "Nucleotides 51 through 1577 encode the amino acid sequence for the murine Scavenger Receptor Class BI.' SEQUENCE DESCRIPTION: SEQ ID NO: 3: US-10-178-611-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            185 CATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   110 CCCCTTCAGTCCCTGAGCCCCGGGAGCCCGGGCCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             125 CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           245 GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    76.6%; Score 1369.8; DB 6; Length 1785; 88.6%; Pred. No. 0; i.ve 0; Mismatches 192; Indels 0;
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabet, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                    STATE: Georgia
COUNTRY: USA
ZIP: 10199-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: FIOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/178,611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/749,907
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 24-Jun-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 1785 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (404)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 76.6
Best Local Similarity 88.6
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: CDS
                                                                                                                                                CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYPOTHETICAL: NO ANTI-SENSE: NO FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                       1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1369
                                                                                                                                                                                                                                          CATGACACCCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT 1009
                                                                                                                                                                                                                                                                                                                                         1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  965 rácicrerrideceaacegerecereracecacedaaceaacerrereceareceasa 1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC 1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1085 CCACTTTTACAACGCCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC 1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAAGAAA 1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GATCGAGCCCGTGCTCCTCCCATTGCTGTGGTTTGAGCAGCGGTGCCATGGGCGGCGA 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA 1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTATGTGCTGCTGGGGGCTGGCGGCCTCCTGCTGCTGCTGCTCATCTACCAGTTGCG 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAGCCAGGAGAAATGCTTTTTATTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGA 1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                949
                                                                                                                                                                                                                                                                                                                                                                                        964
                                                                                                 784
                                                                                                                                                                                             844
                                                                                                                                                                                                                                                                                         904
  TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT 724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGACCAGCCACCAGTCCCTACACCCCGCTTCTTGAGGACTCTTCAGCGGACAGCC 1681
                                                                             785 TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCCACTT
                                                                                                                                                                                                                                                                               CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                     905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                     1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA
                                                 CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGGATTGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3, Application US/10178611
Publication No. US20030167475A1
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-178-611-3
                                                                                                                                                                                                                                                                                         845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1730
                                                                                                                                           890
                                                                                                                                                                                                                                          950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1625
                                                                                                                                         ò
                                                                                                                                                                                        셤
                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

229

64

Gaps

409

305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT 364

OY 1550 CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAAAAAGGGCTCGCAGGATAAGGA 1609	RESULT 13 US-10-164-863-3 ; Sequence 3, Application US/10164863 ; Publication No. US20030232879A1 ; GENERAL INFORMATION: ; APPLICANT: Krieger, Monty ; APPLICANT: Krieger, Metty ; TITLE OF INVERTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY	; FILE REFERENCE: MIT 9094 ; CURRENT APPLICATION NUMBER: US/10/164,863 ; CURRENT PILING DATE: 2002-10-01 ; PRIOR FILING DATE: 1998-09-04 ; PRIOR FILING DATE: 1997-09-05 ; PRIOR FILING DATE: 1997-09-05	; NUMBER OF SEQ ID NOS: 15 ; SOFTWARE: Patentin version 3.1 ; SEQ ID NO 3 ; LENGTH: 1785 ; TYPE: DNA ; ORGANISM: Mus musculus ; FEATURE:	; NAME/KBY: misc_reature ; OTHER INFORMATION: 51577 ; OTHER INFORMATION: Encodes the amino acid sequence for the murine Scavenger Receptor ; OTHER INFORMATION: Class BI US-10-164-863-3	Query Match 76.6%; Score 13,69.8; DB 6; Length 1785; Best Local Similarity 88.6%; Pred. No. 0; Matches 1485; Conservative 0; Mismatches 192; Indels 0; Gaps 0;	QY         110         CCCCTTCAGTCCTGAGCCCGGAGCCGGCACCAGCGGAGCAGCGCGCAGCGC         169           b         5         CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACACGCGGACATGGGCGCAGCTC         64	QY         170         CAGGGGGGTGGGTGGGGCTGGGGCTTGGGGGCTTGTTGTTGT	Qy 230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG 289	Oy 290 CATAGACCCCAGCAGCTGTCCTTTGCAATGTGGAAGAGATCCCTGTACCTTTACTT 349	QY         350 GTCCGTCTACTTCTTCGAGGTCGATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT 409           LI	OY 410 AGTGGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT 469
470 CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG 529	O TCCCTTGGGGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT	830   CCAGAACTTCAGCAAGATCCACCTGGTGGAATGGGTCAGCAAGTCAACTA   889		905 GACCIACAACGAAICAAGGGIGITIGAAGGCAITCCCACGIAICGCITCACGGCCCCCGA 964 1070 AACITIGITIGCCAAIGGGICIGITIACCCACCCAATGAAGGITICIGCCGIGCCTIGA 1129	1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC 1189 1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC 1084	1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249 	1250 AAGGGAGATTCTTTGTTCCTTGACATCCAGTCACTGGGATCCCCATGAACTGTTC 1309 	1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA 1369 	1370 GATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGCGGTGCCATGGCGGCGA 1429 	1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTCAAGTGCCCCAGGTACTTCAGTATGTGCA 1489	Qy         1490         GTATGGTGCTGGGGCTGGGGCCTCCTGCTGCTGCTGCTGCTCATCTACCAGTTGCG         1549           Db

8 6 6 6

	on US/10706073 40077526A1 wonty SR-B1 Antagonist And Use Thereof As Cont In The Treatment Of Steroidal Overprodu 299 WUMBER: US/10/706,073 2003-11-12 2003-11-12 998-10-04 MERR: 60/057,943 997-09-05 : 9 er. 2.0	Query Match         76.6%; Score 1369.8; DB 7; Length 1785;           Best Local Similarity 88.6%; Pred. No. 0;         Mismatches 192; Indels 0; Gaps 0;           Matches 1485; Conservative 0; Mismatches 192; Indels 0; Gaps 0;         0;           QY 110 CCCCTTCAGACCCCGAGACCCGACACGCGACATGGGCAGCACGC 64         0           Db 5 CTCCTTCAGGTCTGAGCCCCCAGAGCCCGCACGCGGACATGGGCGCACTC 64         0           QY 170 CAGGGCGCTGGGTCGGGGCTCGTGGGGCTGTTGGCGTCGG 229         0           Db 65 CAGGGCGCTGGGTGGGGCTTGGGGGCTCGTGGGGCTGCTTTGGCTCGG 229         0           Db 65 CAGGGCGCTGGGTGGGGGTTGGGGGCTCGTGGGGCTGCTTTGGGTCGGTCGG 124         0           QY 230 TGTGGTTATGATCCTCTAGGGGTTGGGGCCCCTCGTGGGGTTGGGCTCGGTTGGGTTGGGTTGGGTTGGGTTGGGTTGGGTTGGTTTT
	TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT TCCCTTCGTGCATTTTTTCTCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAATT TCCCTTCGTGCATTTTCTCAACACGTACCTCCCCAGACATGTTCCCCATAAAGGGCAAATT CGGCCTGTTTGTTGAGAATGAACAACTCAGACTCTTCACTGTGTTCACGGGCGT TGGCCTGTTTGTTGGGATGAACACTCGAATTCTGGGGTCTTCACTGTGTTCACGGGCGT TCGGCATTCAGAGAATCCACTGGTGGACAGGATGTGGGGAATGTAGAACTA CCAGAATTCAGCAGAATCCATCGTGGAATGGAA	1130   ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCCACCC   1189   1025   GTCTGGCATTCAGCACCTGGTTTTCTTCTCCCCACCC   1084   1190   CCACTTTTACAAACCAGCCCTGTGCTTTCTTCTCTCCCACCC   1084   1190   CCACTTTTACAACCCACCCTGTGTTTCTTGGTTTCTCTCCCACCC   1249   1185   CCACTTTTACAACCCGACCCTGTGTTTGTTCTTGGTTCTTGAACCCTTTC   1309   1185   CCACTTTTACAACGCCGACCCTGTGTTGTTCTTGGTTCTTGGTTCTTGGTTCTTGAACTGTTC   1309   1185   CACTTTTACAACGCCGACCCTGTGTTGTTCCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTCTTGGTTTC   1309   1186   1

B &

8 6 8 6

8 8 8

Db   1445 CAGCCAGGAGAAATGCTTTTTGTTTTGAGGTAGTAAAAAGGGCTCCCAGGATAAGGA 1504	RESULT 15 US-10-933-037-3 ; Sequence 3, Application US/10933037 ; Publication No. US20050136005A1 ; GENERAL INFORMATION: APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky ; TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL MIMBED OF SPOITENINES.	CORRESPONDENCE ADDRESS:  ADDRESSE: Patrea L. Pabst, Arnall Golden & Gregory STREET: 2800 One Atlantic Center  CITY: Atlanta STATE: Georgia COUNTRY: USA	COMPUTER READABLE FORM:    COMPUTER PEADABLE FORM:   COMPUTER: Floppy disk	CURRENT APPLICATION DATA:  APPLICATION NUMBER: US/10/933,037  FILING DATE: 02-58-2004  CLASSIFICATION: «Unknown»  ATTORNEY/AGENT INFORMATION:  NAME: Paber, Patrea I.  PATCHERM NUMBER: 2. 204	REFERENCE/DOCKET NUMBER: 1.238   TELECOMMUNICATION INFORMATION:   TELEPHONE: (404) 873-8794   TELEPERAX: (404) 873-8794		HYPOTHETICAL: NO  ANTI-SENSE: NO FEATURE:  NAME/KEY: CDS  LOCATION: 51.1577  OTHER INFORMATION: /Function = "Nucleotides 51 through 1577  encode the amino acid sequence for the murine Scavenger Receptor Class BI.'  SEQUENCE DESCRIPPION: SEQ ID NO: 3:	-10-933-037-3  Query Match 76.6%; Score 1369.8; DB 9; Length 1785; Best Local Similarity 88.6%; Pred. No. 0; Best Local Similarity 88.6%; Pred. No. 0; Matches 1485; Conservative 0; Mismatches 192; Indels 0; Gaps  Matches 1485; Conservative 0; Mismatches 192; Indels 0; Gaps  110 CCCTTCAGTCCCTGAGCCCGGGGCGGCGCGCACAGCGGACAGGGGCGCAGGGC  5 CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGGGGACAGGGGGCAGCCTC	Qy 170 CAGGGCGCGCTGGGTGGGGCTGGGCTTGGGCTGTGTGCTGTGCTGTGCTCTGTGCTCGG 229
	OY 710 TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT 769	0y         830         CCAGAACTTCAGCAAGATCCACCTGGTGGAATGGGATGGGTCAGCAAGGTCAACTA         889           Db         725         CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA         784           Oy         890         CTGGCATTCAGAGCAGTGCAACATGATGAACATCAGGGAGATGTGGGCACCATT         949           Db         785         TTGGCATTCAGAGCAGTGTAACATGATCAATGAGAACTTCCGGGCAGATGTGGGCACCCTT         844	OY         950 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT         1009           DD		1130	00	Oy         1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA         1369           Db         1205 TGTGAAGATGCAGCTCTACATCAATCTGTCAAGGGCATCGGGCAACAGGGAA         1264           Oy         1370 GATCGAGCCCTCCTCATTGCTGTTTGAGCAGGGGGGGGGG	Qy         1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA 1489           Db         1325 GCCCTGAGCACGTTCTACACGCAGCTGGTGCTCGAGTTCTTCACTACGCGCA 1384           Qy         1490 GTATGTGCTGCTGCTGCTGCTGCTGCTGCTCCTTCACTCAC	

THIS PAGE BLANK (USPTO)

Sequence 22, Appl Sequence 338, Appl Sequence 1, Appli Sequence 56, Appl Sequence 56, Appl Sequence 5670, A Sequence 5670, A Sequence 5670, A Sequence 5670, A Sequence 518, Appl Sequence 518, Appl Sequence 518, Appl Sequence 673557, Sequence 673557, Sequence 673557,

2 US-11-128 O61-6274
2 US-11-128 O61-6274
2 US-11-128 O61-6274
2 US-11-128 O61-6274
2 US-11-004-762-21
2 US-11-004-762-22
3 US-11-004-762-22
3 US-11-004-762-22
3 US-11-052-554A-56
2 US-11-052-554A-56
3 US-10-955-065A-75014
3 US-10-955-065A-75014
3 US-10-925-065A-75014
3 US-10-925-065A-7704019
3 US-09-925-065A-7704019
3 US-09-925-065A-789730

Sequence 2717, Ap Sequence 489729, Sequence 489730,

ALIGNMENTS

Sequence 2632, Ap Sequence 6274, Ap Sequence 21, Appl Sequence 22, Appl

Sequence 6274

Sequence 869021

```
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Mounts, William M.
APPLICANT: Hann, Louane E.
APPLICANT: Brown, Eugene L.
APPLICANT: Brown, Eugene L.
APPLICANT: Miler, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
CURRENT APPLICATION NUMBER: US/11/128,061
CURRENT FILING DATE: 2005-05-11
PRIOR PILING DATE: 2004-05-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 ccTgAgccccgCgAgcccGGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 1788;
llarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1074, Application US/11128061
Publication No. US20060003958A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 7285
SOFTWARE: Patentin version 3.3
SEQ ID NO 1074
LENGTH: 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cricetulus griseus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Melville, Mark W.
610
610
496
496
2024
2828
3370
23187
9474
1109
                                                                                                                                                                                                                                                                      833
833
630
5300
6615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-128-061-1074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Simi
Matches 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2950, Ap
Sequence 675492,
Sequence 1101, Ap
Sequence 1101, Ap
Sequence 701020,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 7035, Ap
Sequence 4716, Ap
Sequence 4716, Ap
Sequence 1803, Ap
Sequence 2899, Ap
Sequence 1747, Ap
Sequence 51554,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3, Appli
Sequence 6, Appli
Sequence 90, Appl
Sequence 11, Appl
Sequence 8, Appli
                                                                                                                                    February 23, 2006, 18:13:56 ; Search time 549.461 Seconds (without alignments) 6938.932 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                        US-08-765-108-3
1788
1 GCCACCTGCAGGGCTACTGC......CTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Published Applications NA_New:*

1: /cgn2_6/ptodata/1/pubpna/USOB NEW PUB.seq:*

2: /cgn2_6/ptodata/1/pubpna/USOB_NEW_PUB.seq:*

3: /cgn2_6/ptodata/1/pubpna/USOB_NEW_PUB.seq:*

4: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*

5: /cgn2_6/ptodata/1/pubpna/DSOB_NEW_PUB.seq:*

6: /cgn2_6/ptodata/1/pubpna/USOB_NEW_PUB.seq:*

7: /cgn2_6/ptodata/1/pubpna/USOB_NEW_PUB.seq:*

8: /cgn2_6/ptodata/1/pubpna/USOB_NEW_PUB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USOB_NEW_PUB.seq:*

10: /cgn2_6/ptodata/1/pubpna/USIB_NEW_PUB.seq:*

11: /cgn2_6/ptodata/1/pubpna/USIB_NEW_PUB.seq:*

12: /cgn2_6/ptodata/1/pubpna/USIB_NEW_PUB.seq:*

13: /cgn2_6/ptodata/1/pubpna/USIB_NEW_PUB.seq:*

13: /cgn2_6/ptodata/1/pubpna/USIB_NEW_PUB.seq:*
                 GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 US-11-128-061-1074
2 US-11-128-061-1074
2 US-11-136-527-2943
2 US-11-222-745-3
2 US-11-222-745-9
2 US-11-222-745-9
2 US-11-222-745-8
2 US-11-22-745-8
2 US-11-136-527-7039
2 US-11-128-049-4716
2 US-11-136-527-1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 US-11-136-527-2950
US-09-925-055A-675492
2 US-11-128-061-1101
US-10-925-065A-701020
                                                                                                                                                                                                                                                                                                                                                                                                                of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                         7209121 segs, 1066183437 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                               nucleic search, using sw model
                                                                                                                                                                                                                                                                                                           IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1424.6
1255.8
1137.8
1136.2
1136.2
1061.2
623.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             172.6
132.6
70.6
                                                                                                                                                                                                                          Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      600
                                                                                                                                                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                   Total number
                                                                                                 nucleic
                                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
No.
```

180

180

60

Gaps

ö

Indels

DB 12; Length 1788;

us-08-765-108-3.rnpbn

1111   AMANIGICAGCACTTICGAGGTTTGGTGCACCCCTGTTTCTGTCACCCCTCACTTCTACA 1200	RESULT 3 (WS-11-136-527-2943 (Sequence 2943, Application US/11136527) (Sequence 2943, Application NO. US20050287570A1 (SEQUENCE 2043, Application NO. US20050287570A1 (SEQUENCE 1018040ATTON) (SEQUENCE 1018040ATTON) (TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes TITLE OF INVENTION: SOOF-25 (CURRENT FILING DATE: 2005-05-25 (CURRENT FILING DATE: 2005-05-25 (CURRENT FILING DATE: 2005-05-26 (CURRENT FI
61 AGCTCGGCTTCTGTCATTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120 61 AGCTCGGCTTCTGTCATTCTGTGGCCTCTGTCGCTTCTGTCGCTGTCCCCTTCAGTC 120 121 CCTGGGCTCGGCTCAGTCGCTCTCTGTCGCTTCGCTGTCGCTGTCCCTTCAGTC 120 122 CCTGGGCTCGGGGGCCGCGCGCACACGGGGACACGGGGGGCGCTGTGCTTCGTTCTTCGTGTGTTGTGTGTTGT	ATTTATCACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG

us-08-765-108-3.rnpbn

8 6 6 6 6 6 6 6 6 6 6

8 6 6 6

3 B 3 B 5 B 5

4 6 6 6 6 6 6 6 6 6 8

1181   AGAATGTCAGCACCTGCAGGTTTTGTTCTTCTCCCCAGCCCCTTTTACA 1247   1201   ATGCGAACCCTGCTATAGAAGCCGTTCTTACACCCTGAACCCAGAACGTTTTTTGO   1214   ATGCTGAACCCTGGTATAGAAGCCGTTCTACACCCTGAACCCAAAGGGCATT 1307   1224   ATGCTGTACTACACCCGGTCACTGGAACCCTGAACCCTGAAGGGCATT 1307   1221   CTTTGTTCCTTGCAACCCCGGTCACTGGAACCCTGAACCCTGAAGATGC 1320   1321   AGATAAGCCTCTTAACACCACCCCGGAACCCCCATGAACTGCTTCTGTGAAGTTCC 1320   1321   AGATAAGCCTCTTAACACACCACCCCCAAGGGCAACACTGCACCACTGAACATGC 1320   1321   AGATAAGCCTCTTAACACACACCCCCCAAGGGCAACACCCCTGAACATGC 1320   1322   AGATAAGCCTCTTAACACACACAGGGCATTCTGCAACACCCCTGAACATGC 1320   1331   TGGTCTCTCCCATTGCACACAAGGGCATTCTCACACACGCCAAGATGC 1320   1342   AGCTCTCCCATTGCACACAAGGGCATTCTCACATGGCCAAGATGCC 1320   1443   TGGTCTCTCCATTGCACAACACAGGCGAATACTCCCCTGAACATGCCCTGAACATGCCAAGATGC 1320   1444   CGTTCTCACACTGCACACAAGGGCATTCTCACATGGCCAAGACCCCTCAACA 1487   1445   TGGTCTCTCCATTGCTTGTTTTGAACACAAGGCGAATACTGCACACACCCCTCAACA 1487   1446   CGTTCTCACACACACACACACACACACACACCCCTCAACA 1560   1446   CGTTCTCACACTGCTGGTTTTTTTTTTTTTTTTTTTTTT	RESULT 4 US-17-22-745-3    Sequence 3, Application US/1122745   Sequence 3, Application US/1122745   Publication No. US20060035834A1   GENERAL INFORMATION:   APPLICANT: Karin, Nathan   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AN TITLE OF INVENTION: INFLAMMATION   TITLE OF INVENTION: INFLAMMATION     TITLE OF INVENTION: INFLAMMATION     TITLE OF INVENTION: INFLAMMATION     TITLE OF INVENTION: INFLAMMATION     TITLE OF INVENTION: INFLAMMATION     TITLE OF INVENTION: INFLAMMATION     TOTAL OF THE STATE O
6.1 AGCCTGGGCTTCTGTCATCTCTGTGGCTTCTGTGGCTGTCGCTGTCCCCTTCAGTC [12]  1.2CTGGGTTTCTGTCATCTCTGTGGCCTCTGTGGCGCTCTTGCGCTT [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	ATTITATCAACAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTTCGGCCTGTTTG

Qy         1355         TGGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGTGTTTTTTGAGCAAGGGG         1414           Db         1201         CGGGCAAACAGGGAAGATCGAGCCGTTGCTGCTGTGTTTTTTGAGTTTCTACAGAGGGG         1260           Qy         1415         TGCCATGGGCGAGCCCTGAACACGTTCTACAGGCAGTTGTTGATGCTCCAGGT         1474           Db         1261         GATGATGGGCGAGCCCTGAACACGTTCTACAGGCAGCTGGTGCTGATGCCCCAGGT         1320           Qy         1475         ACTTCAGTATGTGCAGTATGTGCTGCTGGGGCTGGCGGCTCCTGCTGCTGCTGCTGCT	RESULT 5 US-10-821-234-66/C  j Sequence 66, Application US/10821234  j Publication No. US200255114A1  j RAPLICANT: Labat, Ivan  j APPLICANT: Labat, Ivan  j APPLICANT: Stache-Crain, Birgit  j APPLICANT: Tang, Y. Tom  j TITE OF INVENTION: WHORE 1204-04-07  CURRENT PELLIG DATE: 2004-04-07  j FRIOR APPLICANT: DATE: 2004-04-07  j RIGHER TPLIAG DATE: 2004-04-07  j RUNGER OF EXCLUSION NUMBER: US 60/462,047  j RUNGER OF SEQ ID NOS. 1704  j ORGANISH: pt. SEQ_genes Version 1.0  seq ID NO 66  j SEQ ID NO 66  j Mismatches 333; Conservative 0; Mismatches 332; Indels 0; Gaps 0;  duety Match  per Local Similarity 80.1%; Pred. No. 1.16-307;  Matches 1337; Conservative 0; Mismatches 332; Indels 0; Gaps 0;  dy 120 CCCTGAGGCCGGGGGCCCCCAGGCGCCCAGGCGCCCAGGGCGCC 179  Db 2536 CCTGCGAGGCCGGGGCTGGCCCTGGCCCTGGCCCTGGCCCTGGCCCTGGCCCTGGCCCTGGCCCTGGCCCTGGCCCCGCCCCCC	360 ITCTTCBAGGTGGTCAATCCCAGCAGATCCTAAAGGGTGGAAGCCAGTAGTGCGGGAG  2296 ITCTTTGACGTCATGAAGCGCAGAGATCCTGAAGGGCGAGAAGCCGCAGGGGGAG
61 GTGTGCTGCGCTTATCGTGATTCTCATGGTGCCTCGCTCATCAAACAGCAGGT 120 275 ACTGAAGAATGTCCGCATAGACCCCAGCGGCCTGCCTTTGCAATGTGGAAGGAGATCCC 334  121 GCTCAAGAATGTCCGCATAGACCCCAGCGGCCTGTCCTTTGCAATGTGGAAGGAGATCCC 180 335 TGTACCCTTCTACTTGTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGGATCCTAAA 394  181 TGTTCCCTTCTACTTGTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGGTCCTAAA 454  181 TGTTCCCTTCTACTTGTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGGTCCTAAA 454  241 TGTCCCTTCTACTTGTCCGTCTACTTCTTCTACAGGGAATTCAGACATAA 454  241 TGGCCAACATCACTTCAATGACAATGACTGTCTTTGTCGGAGGTTCTAAAA 300 455 GGCCAACATCACCTTCAATGACAATGACAGGTCCTTTGTCGGAGACCTCCA 514  1	CTTGGGGCTGGCCACCTTGGGCCAGCGTGCTTTATGAACCGAACATTGGTGAGATCT CTTGGGGCTTGGCCACCATGGGGCCAGCGGGCCACGGTTGATGGTGAGATCT CTTGGGGCTATGGTCACCATGGGCCAGCGGGCCTTTATGAACCGCACGGTTGGTGAGATCT CTTGGGGCTATGGGCATCCTTGGTGAATTTTATCACCAACATTATTCCCAGACATGTTCCC GTGGGGCTATGGGCATCCGTGAATTTTATCACACAAATATTTCCCAGACATGTTCCC CATCAAGGGCAACTTCGGCAATTTATCCACAAATATTTCCCAGACATGTTCCC CATCAAGGGCAAGTTCGGCAATTTCCTCAGAAATATTCCCAGACATCTTCAC CATCAAGGCCAAGTTCGGCAATTTCGCAAAATATTCCCAGACATCTCAC CATCAAGGCCAAATTTGGCCTGTTCAGAACTTCAGCCACTCTCAC CACCAAGGTCCACAAATTTCAGAACTTCAGCAAAATATTCCCAGAACTTCACACCCTCACAAAATATTGGCCTTTCACCACAAAATATTGGCCATCAAAATATTCAGCCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAAATATCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCAAAATATTCAGCACAAAAATATTCAGCAAAAATATTCAGCAAAATATTCAGCAAAAATATTCAGCAAAAATATTCAGCAAAAATATTCAGCAAAAATATTCAGCAAAAATATTCAGAAAATATTCAGAAAAATATTCAGAAAAATATTCAGAAAAATATTCAGAAAAATATTCAGAAAAATATTCAGAAAAATATTCAGAAAAATATTCAGAAAAATATTCAAAAAAATATCAAAAAAAA	1081 TCTGAACCCTGACCCAAGGGGCATTCTTTGTTCCTTGACATCCACCGGTCACTGGGAT 1140 1295 CCCCATGAACTGTGAAGATGCAGATAAGCCTCTACATCAAAGGCTGTCAAGGGCAT 1354

1097

977

셤 ઠે 8 ઠે g ŝ

셤 Š 요 쉱

ઠે

g

ઠે

셤 ઠે g

ò

셤 8 ద ઠે g ઠે 셤 ò g

8

셤

ઠે 셤 ઠે

ò

g Š g દ્રે

```
Sequence 90, Application US/11072175
Sequence 90, Application US/11072175
Publication No. US20060029944A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
FILE REFERENCE: D0273A CIP
CURRENT APPLICATION NUMBER: US 60/406,385
PRIOR APPLICATION NUMBER: US 60/406,385
PRIOR APPLICATION NUMBER: US 10/649,593
PRIOR PILING DATE: 2003-08-26
PRIOR FILING DATE: 2003-08-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGCGGGCCCTACGTGTACAGGGAGTCCAGGCACAAAAGCATCACCTTCAACAACAAC 393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGC 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                274 ricirirdacercargaaccecagegagarecraaagegegagaageegegegegege
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAAT
CTGGCGCTGGGCTCCTGCTGCTGGTCCCTGTCATCTGCCAAATCCGGAGCCAAGAG
                                                                                                                       AAATGCTATTTATTTTGGAGTAGTAGTAAAAAGGGCTCAAAGGATAAGGAGGCCATTCAG
                                                                                                                                                                             GCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCAAGAAGCCAAG
                                                                                                                                                                                                                                                                        CTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTCAGACCAGCCA
                                                                                                                                                                                                                                                                                                       34 CCCTGCGAGCCGCGGGGCCCCAGGCGCGCAGACATGGGCTGCTCCGCCAAAGCGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tegenescentesecriesecencencesecrienciencecriencencesecriente
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94 resecreccesescerescerescerescerescererescereresceresceresceres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCGTGATGGTGCCGTCGCTCATCAAGCAGCTCCTTAAGAACGTGCGCATCGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTTGTCCGTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTCTTCGAGGTGATCATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGTAGTGCGGGAG
                                                                                                                                                                                                                        1036 GCCTATTCTGAATCCCTGATGACATCAGCTCCCAAGGGCTCTGTGCTGCAGGAAGCAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCGCATAGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCTGAGCCCCGCGGGCCGCACACGCGGACATGGGCGGCAGCGCCAGGGCGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    63.5%; Score 1136.2; DB 9; Length 2566; 80.0%; Pred. No. 3.2e-307; ive 0; Mismatches 333; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                         1740 TCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                   916 CCCAGCCCTACACCCCGCTTCTCCCGGACTCTCCCAGCGGACAGCCCC 868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin version 3.2
SEQ ID NO 90
LENGTH: 2566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 63.5
Best Local Similarity 80.0
Matches 1336; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT, 6
US-11-072-175-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OKGANISM: HO
US-11-072-175-90
                                                                            1560
                                                                                                                          1096
                                                                                                                                                                          1620
                                                                                                                                                                                                                                                                        1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                            1156
                                                                                                                                                                                                                                                                                                                         916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                         Š
                                                                                                                  g
                                                                                                                                                                     8
                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                    ď
                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                 2057
                                                                                                                                                                                                                                                                                                                                                                                                                                                1937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1756 GATCAGTGCAACATGATGGAACTTCTGGGCAAATGTGGCCGCCCTTCATGACTCCT 1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1696 GAGTCCTCGCTGGAGTTCTACAGCCCGGAGGCTGCCGATCCATGAAGCTAATGTACAAG 1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1080 GCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATT 1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCAT 1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1336 CAGCTGAGCCTCTACATGAAATCTGTCGCAGGCATTGGACAAACTGGGAAGATTGAGCCT 1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1276 GIGGTCCTGCCGCTGCTCTGGTTTGCAGAGGGGGGCCATGGAGGGGGAGGCGCTCTTCAC 1217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1157
                                                                                                                                                 2117
                                                                                                                                                                                                                                                                                                                                                1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960 CAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCAT 1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTAC 1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1456 AACGCCGACCCGGTTCTGGCAGAAGCGGTGACTGGCCTGCACCCTAACCAGAGGGCACAC 1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCAGTATGTGCTG 1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGGGGCTGGGCCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCGCAGCCCAGGAG 1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              959
                                                                                                                                                                                                                                                                                                  629
                                                                                                                                                                                                                                                                                                                                                                                                719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAAC
                                   1056 GAGAATAAGCCCATGACCTGAAGCTCATGACCTTGGCATTCACCACCCTCGGCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                          996 GGTGCCTTCATGAACCGCACTGTGGGTGAGATCATGTGGGGCTACAGAGGACCCCCTTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1936 AATCTCATCAACAAGTACTTTCCAGGCATGTTCCCCTTCAAGGACAAGTTCGGATTATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1636 GAGTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCGTGGCTCCCAAAACCCTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1516 cagaacercaecaecrecaeerreageceeerrefricterecearecreaerre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1396 recrigirecregacarecacecegreacegaarececargaacrecrereraaacre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACATTCTACACTCAGCTGGTGTTGATGCCCAAGGTGATGCACTATGCCCAGTACGTCCTC
  CGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTTCAATGACAAT
                                                                                                                            540 TCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGCGCCCAGTAATGATG
                                                                                                                                                                                                                                               2116 rcccacacactacarcercarccccaacarccrecirccrecacacacacacarca
                                                                                                                                                                                                                                                                                               GAGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCACCTTGGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                CGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGATCCCTTCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1876 GCTGAGCTCAACAACTCCGACTCTGGGCTCTTCACGGGGGTCCAGAACATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900 GAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATTCATGACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCCATGAACTGTTCTGTGAAGTTG
                                                                                                   GATACTGTGTCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAGGTCCCACGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATITITATCAACAAATACTIACCAGACAIGTICCCCCATCAAGGGCAAGTICGGCCTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1440 i
                                                                                                                                                                                                                                                                                                                                                                                              099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1500
                                                                                                480
                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1020
  420
```

ö

239

93

8 8 8

6 6 6

1474 AAATGCTATTTTTGAAGTAGTAAAAAGGGCTCAAAGGATAAGGAGCCATTCAG 1533   1620 GCCTACTCTGATGTCCCAGCTGCCAAGGGCACGCTGCAAGAAGCCAAG 1679   1534 GCCTACTCTGATGCTCACCAGCTCCCAAGGGCTCTGTGCTGCAGAAGCAAA 1593   000	US-11-055-309A-11	
	10   MITCHAILARAMATCHACCAGANGTICCCCCTCAAGGACATGGGGCATTTTT   693	

. අය දුරු අයි

ò

දු පු

8 8 8 8

Db 1474 AAATGCTATTTTTGGAGTAGTAAAAGGGCTCAAAGGATAAGGAGCCATTCAG 1533  Qy 1620 GCCTACTCTGAGTCTCTGATGTCACAGGGCTCAAAGGATAAGGAGCCATTCAG 1533  L534 GCCTATTCTGAATCCTGATGTCACCAGGGCTCTGTGCTGCAGGAAGCAAA 1593  Qy 1680 CTGTAGGGTCCCAAAGACACCAGAGCCCCCCAAGGGCTCTGTGCTGCAGGAAGCAAA 1593  Qy 1680 CTGTAGGGTCCCAAAGACACCAGAGCCCCCCCAACCTGATGGTCAGAACAAAA 1593  Qy 1740 CTGTAGGGTCCCAAAGACACCGTGAGCCAGCCTGGCTGGC	USB-SHUT   PROBANTION:   US   U122745
	120   ATTITUTOACAANTECOAGCANTETCCCCTTCAAGGACAAGTTCGCCTTTTTTTT   193     34   ATTICATCAACAAGTACTTCCCGCTTCAAGGACAAGTTCGCCCTTTTTTTT

```
Sequence 7039, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 89.6%;
Matches 657; Conservative 10
                                                                                                                                                                                                                  TYPE: DNA; CREANISM: Rattus norvegicus US-11-136-527-7039
                                                                                                                                                                                     SEQ ID NO 7039
LENGTH: 1400
                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        199
                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                    1055
                                                                                                                                                                                                                                                                                                                                                                           1175
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCCCGTGCCTGGAGTCTGGAATTCAGAACGTCAGCACCTGCAGGTTCAGTGCCCCCTTG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTTCTGTCACACCCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGT 1235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCATGAACTGCTCTGTGAAACTGCAGCTGAGCCTCTACATGAAATCTGTGCGCAGCATT 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1356 GGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGT 1415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1476 CITCAGIAIGIGCAGIAIGIGCIGCIGCGGCGCCTCCTCCTGCTGCTGCTCCCGTC 1535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1536 ATCTACCAGTIGCGCAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGC 1595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1381 ATCTGCCAAATCCGGAGCCAAGAGAAATGCTATTTATTTTGGAGTAGTAGTAAAAAGGGC 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1596 TCGCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAG 1655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441 TCAAAGGATAAGGAGCCTTTCAGGCCTATTCTGAATCCCTGATGACATCAGCTCCCCAAG 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGCATT 1355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCATGGGCGGCGCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTA 1475
                                                                                                                                            875
                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                             901 TICGIGGCICCCAAAACCCTGITIGCCAACGGGICCATCIACCACCAACGAAGGCITC 960
                               755
                                                          .009
                                                                                      815
                                                                                                                 9
                                                                                                                                                                        720
                                                                                                                                                                                                    AGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAG 935
                                                                                                                                                                                                                                 780
                                                                                                                                                                                                                                                             995
                                                                                                                                                                                                                                                                                      840
TTGGCATTCACCACCCTCGGCGAACGTGCCTTCATGAACCGCACTGTGGGTGAGATCATG
                                                                                                     601 TTCAAGGACAAGTTCGGATTATTTGCTGAGCTCAACAACTCCGACTCTGGGCTCTTCACG
                                                                                                                                          GTGTTCACGGCGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTC
                                                                                                                                                                  661 GIGITICACGGGGGTCCAGAACATCAGCAGGATCCACCTCGTGGACAGGGGACGGGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTG
                                                                                  756 ATCAAGGGAAGTTCGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACT
                                                                                                                                                                                                                                                                                     781 Argrescecerricareacrecreacrecrescrescresasricracasecesaseceres
                                                                                                                                                                                                                                                                                                                                               841 CGATCCATGAAGCTAATGTACAAGGAGTCAGGGGTGTTTGAAGGCATCCCCACCTATCGC
                                            721 AGCAAGGTTGACTTCTGGCATTCCGATCAGTGCAACATGAATGGAACTTCTGGGCAA
                                                                                                                                                                                                                                                            ATGTGGCCACCATTCATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGC
                             TGGGGCTATGAGGATCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTCTGTGCTGCAGGAAGCAAACTGTAG 1530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGCACGGTGCTGCAAGAAGCCAAGCTGTAG 1685
                                                                                                                                            816
                                                                                                                                                                                                   918
                                                                                                                                                                                                                                                          936
                                                                                                                                                                                                                                                                                                                                                                                                                                   1116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1416
                             969
                                                                                                                                                                                                                                                                                                                                                                          1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                               961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1656
                                                                                                            셤
                            ò
                                                                                  δ
                                                                                                                                          8
                                                                                                                                                                    셤
                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

US-11-136-527-7039

```
1410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 CCCTGTTTCTCTCCCAGCCCCACTTCTACAATGCTGACCCCGTGCTGTCAGAAGCTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGATCCCCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 ATGCTTCACGCCCCCCGATACTTTGTTTGCCAACGGGTCCGTCTACCCACCTAATGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTTCTGCCCGTGCCGCGAGTCCGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGGTCTGAACCCTGACCCAARGGAGCATTCYTTGTTCCTWGACATCCACCGGGTCMCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 GGATCCCCATGAACTGTTCCGTGAAGATGCAGCTGAGTCTGTACAKCAAATCCGTCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCATTGGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1111 GTTTCTGCCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCGGTGCCATGGGCGGCGAGCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1471 AGGTACTICAGTATGTGCAGTATGTGCTGCTGGGCTGGCCGCCTCCTGCTGCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541 AGGGCTCGCAGGATAAGGAGGCCCATGCCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCGTCGGGCAAACAGGAAGATCGAGCCAGTAGTCCTGCCATTGCTGTGGTTCGAACAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361 GCGGGATGATGGTGGCGCAGACCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481 CCATCATTTACCAACTGCGCAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAAGGGCACGGTGCTGCAAGAAGCCAAGCTGTAGGGTCCCAAAAGACACCACGAGCCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAAGGCACGGTASTGCAAGAAGCCAAGCTGTAGGGCCCAGAAGAACACCACGAGCCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAACCTGATAGCTTGGTCAGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAAACCTGATAGCTTGGTCAGACCAGCCGCCCAGTCCTACACCCCCRCTTCTYGAGGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421 ARGITCITCACTACGCGCAGTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGCTKCTGGTGC
APPLICANT: Wyeth
APPLICANT: Wyeth
APPLICANT: Wyeth
APPLICANT: Wounts, William M
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
FRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
NUMBER OF SEQ ID NOS: 362830
SOFTWARE: Patentin version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Score 623.4; DB 12;
; Pred. No. 5.7e-164;
10; Mismatches 66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCTCAGCGGACA 1783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
```

```
APPLICANT: Malville, Mark W.

APPLICANT: Charlebois, Timothy S.

APPLICANT: Charlebois, Timothy S.

APPLICANT: Mann, Louane E.

APPLICANT: Hounts, William M.

APPLICANT: Honor, Louane E.

APPLICANT: Leonard, Mark W.

APPLICANT: Leonard, Mark W.

APPLICANT: Miller, Christopher P.

TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR TITLE OF INVENTION: MAKING AME

FILE REFERENCE: 01997.027700

CURRENT PELING DATE: 2005-05-11

PRIOR PRING APPLICATION NUMBER: US 60/570,425

PRIOR PRING APPLICATION NUMBER: US 60/570,425

PRIOR PRING APPLICATION NUMBER: 204-05-11

NUMBER: OF SEQ ID NOS: 7285

SOFTWARE: Patentin version 3.3

SEQ ID NO 4116

FENDING APPLICATION OF 4116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGGACAGTCGC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGC 1488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGCCAGGAGAAATGCTTTTATTTTGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGG 1608
541 CAGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGGGGACAGTCGC 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1489 AGTATGTGCTGCTGGGGCTGGCCCCCCTGCTGCTGCCCGTCATCTACCAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421 AGGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCGCACGGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 AAGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 GCAGCCAGGAGAATGCTTTTTTTTTTGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 CAAGGGAGCATTCTTGTTCCTTGACATCCATCGGGTCACTGGGATCCCCATGAACTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGGCAAACAGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGATCGAGCCCGTGGTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 AGATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGGCGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1249 CAAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 creactreracaargeacaccererecerareacaaccerrerecerereace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 33.6%; Score 600; DB 12; L
Best Local Similarity 100.0%; Pred. No. 1.5e-157;
Matches 600; Conservative 0; Mismatches 0;
                                                                                                                                                                                              Sequence 4716, Application US/11128049
Publication No. US20060010513A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , ORGANISM: Cricetulus griseus US-11-128-049-4716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ጵ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                         Sequence vol-#416, Application US/11128061

| Publication No. US20060003958A1
| GENERAL INFORMATION:
| APPLICANT: Melville, Mark W. |
| APPLICANT: Melville, Mark W. |
| APPLICANT: Mounts, William M. |
| APPLICANT: Handlebois, Timochy S. |
| APPLICANT: Handlebois, Mark W. |
| APPLICANT: Handlebois, Mark W. |
| APPLICANT: Brown, Eugene E. |
| APPLICANT: Brown, Eugene L. |
| APPLICANT: Hiller, Christopher P. |
| TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS |
| TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO CURGONUCLEOTIDE ARRAYS |
| TITLE OF INVENTION: NOVEL POLYNUCLEOTIDE ARRAYS |
| TITLE OF INVENTION: NUMBER: US/11/128,061 |
| CURRENT APPLICATION NUMBER: US/11/128,061 |
| CURRENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1429 AGCCCCTGAACACCTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGC 1488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1728 LIFERENT STANDER STANDER TO THE FIRST STANDARD STANDER TO THE FIRST STANDER TO THE FIRST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCG 1428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTATIGTGCTGGGGCTGCGGCCTCCTGCTGCTGCCCGTCATCTACCAGTTGC 1548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1549 GCAGCCAGGAGAAATGCTTTTTATTTTGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGG 1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481 AAGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGT 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 CTGTGAAGTTGCAGATAAGCCTCTACAAGCTGTCAAGGCGTTGGGCATTGGGCAAACAGGGA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 CAAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCCCCTGAACACGCTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361 GCAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAAAAAAGGGCTCGCAGGATAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1609 AGGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421 AGGCCATTCAGGCCTACTCTGAGCTCTCTGATGTCACCAGCTGCCAAGGCACGGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301 AGTATGEGCTGCTGGGGCGGCCGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 crcacrrcracaardcagacccrdrdccaarccagaagccgrrcrgggrcrgaacccrgacc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1249 CAAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCCAAACAGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 33.6%; Score 600; DB 12; Length 6
Best Local Similarity 100.0%; Pred. No. 1.5e-157;
Matches 600; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1189 CTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Cricetulus griseus
US-11-128-061-4716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
    셤
```

1368

ö

Gaps

9

1428

240

```
1301 GCGTCCAAACAAGGAAGAACATGAGTCATTTGTGGACATTAATCCTTTGACAGGAATTAT 1360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1181: AAACTGCATGGACGCGGGAGTGCTGAACGTCAGCATTTGCAAGAATGGTGCGCCCATTAT 1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1241 CATGTCTTTCCCACACTTTTACCAAGCCGACGAGAAGTTCGTTTCGGCCATAAAAGGCAT 1300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1421 GGAAACGGGAAACATTAGGMCTATGKTTTTCCCAGTGATGTATCTCAATGAGAGTGTTCT 1480
  881 GACTGGAGAGACAATTACCTGAACTTTACAAAAATTGTGGAGTGGAATGGAAAAACGTC 940
                                                                             GGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTG
                                                                                                                           941 geregakinggregakegakegakenecinekanahankaneakegakaganentr
                                                                                                                                                                                941 GGCACCATTCATGACACCCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTC
                                                                                                                                                                                                                                                                                      1001 TATGAAGCTCACCTACCATGATTCAGGGGTGTTTTGAAGGCATCCCCACCTATCGCTTCAC
                                                                                                                                                                                                                                                                                                                                         1178 TCTGTCACACCCTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1361 TTTAAGAGGGSCCAAGAGATTCCAAATCAACACGTACGTTAAGAAGCTGGATGACTTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATTGCTGGTTTGAGCAGAGCGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTGAAGCTGATGATCTTTGGGGCTGGCCACCTTGGGCCAGCGTGCCTTTATGAACCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 cercadedadarcarcandecanderidaaagerrarcadeadaceergringreacea
                                                                                                                                                                                                                                                                                                                                                                                                                                            1121 GGTGCCTGCAGAAATACTAGCCAATTCCTCCGAAAACGCTGGCTTCTGTATACCCGAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1118 CCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1298 CATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGG
                                                                                                                                                                                                                                 rcacccarraaraaccaaggargagacccrcrrrrrcccarcrgacrrrrgcaggrc
                                                                                                                                                                                                                                                                                                                                                                                          1061 AGCCCCTAAAACTTTGTTTGCCAATGGGTCTGTTTACCC---ACCCAATGAAGGTTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 132.6; DB 12; Length 1400; Pred. No. 8.8e-27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Mounts, William M.
TITLE OF INVENTION: Probe Arrays For Expression Profiling of FILE REFERENCE: 031896-041000 (AMI01086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         401;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/574,294 PRIOR FILING DATE: 2005-05-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5899, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1418 CATGGGCGGCGAGCC 1432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1481 CATTGACAAAGAGAC 1495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin version 3.2 EQ ID NO 5899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 362830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 13
US-11-136-527-5899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-11-136-527-5899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Simi
Matches 404;
                                                                                                                                                                                                                                 1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1358
                                                                                881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                              à
                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                      ਨੇ
                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ठ
                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 820
  541 CAGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCGC 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAATGICCGCATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGAGAGATCCCTGTACC 340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                341 CTTCTACTTGTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGA 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         530 CGTTCAGTTTGGAGAAAATGGAACAACCATATCTGCCGTCACCAATAAGGCATATTTT 589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            650 TCTGTTGACTGTTGTGGAAATGGCCCCAGCAGCCTTCCTCAGGGAATCATCAGGCCCAT 709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTATGAGGATCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAA 760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTACAAAGATGAGGTCTTGTCGCTCGTCCATATTTTCAGACCTGACGTCTCCCCTAAC-- 827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 821 CACGGGCGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGGCTCAGCAA 880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGTATGGCCCGATGCTGCTTCTACACGGCGGGGACACTGTCTCTGCTGCTGCTGGTGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    221 TGTGCTCGGTGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    290 cagrercacecrecragrescresastrerrreasaacecastresacearceasaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          350 GAATATGGTATTACAAAATGGTACCAAGGTCTTTGATTCCTGGGAGAAGCCCCCCTCTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                410 TGTGTACATCCAGTTTTATTTCTTCAATGTCACCAATCCAGAGGAGATCCTCCAAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAAGCCAGTAGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   470 AATCCCCCTGCTAGAAGAAGTGGGGCCGTACACCTACAGGGAGCTCAGGAACAAGGCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATCACCTTCAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            521 GCCGGACAGGTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . 581 GGGGGGCGCAGTAATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTGGCCACCTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTGAAAGCTTATCAGCAGACGCTGTTTGTCACTCACACTGTACATGAACTGCTCTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              761 GGCCAAGTTCGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -----tringgicrigitchangagaaargaachaanganggagrangtring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                   TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 2076;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 172.6; DB 12; Length
Pred. No. 6.7e-38;
2; Mismatches 661; Indels
                                                                                                                     Sequence 1803, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 9.7%;
Best Local Similarity 47.1%;
Matches 600; Conservative ;
                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn version 3.2
SEQ ID NO 1803
                                                                                                                                                                                                                              Mounts, William M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Rattus norvegicus US-11-136-527-1803
                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 362830
                                                                                                                                                                                                           APPLICANT: Wyeth
                                                                             RESULT 12
US-11-136-527-1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

1417

Mon

셤 ઠ a ઠ 요

ò 셤 ò

셤 ð 셤

ઠે

8

ò

g

ò

8 8 셤

ઠે

а 8

ઠ

```
CAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCCTCACTTCTACAATGCAGA 1207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCCTGTGCCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATTCTTTGTT 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Э,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1004 récageercatriccaéctritigrigagaaagecaggrariécagtricitirerés 1063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1064 TATTTGCAGGTCAATCTATGCTGTATTTGAATCCGACGTTAATCTGAAAGGAATCCTGT 1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGCAGATAAG 1327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           caecaaarecaaaeaeaeaeaecerererararreaerrecererrererareae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1424 ccratregreadecearcagaaaaarreaagrarraaagaarregaagaggaacrarar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1184 TTGTTTCTGCACAGAAAAATTATCTCAAAAATTGTACATCATATGGTGTGCTAGACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTGGATATTGAACCTATAACTGGATTCACTTTACAATTTGCAAAACGGCTGCAGGTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 887 ITATAAAGTITICAAIGGAAAAGAIAACAIAAGIIAAAGTIGCCAIAAICGACACAIAAIAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGATCAATGGCCACTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           947 AGGTAAAAGGAATCTGTCCTATTGGGA---AAGTCACTGCGACATGATTAATGGTACAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCCTGCAGGTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1124 Graragarrrerrecarecaagecrrrecererecagrreaaraceagara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ------GIGCCTIGAAICCGGCAIICAAAIGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA---GATCGAGCCCGTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1385 CCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCCCCTGAACACGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTTCCCCATCAAGGGCAAGTTCGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              809 CTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGGGCAGATGTGGGCACCATTCATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTACCCTGTTACTACCACAGTTGGTCTGTTTTATCCTTACAACAATACTGCAGATGGAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 70.6; DB 8; Pred. No. 2.2e-09; 0; Mismatches 359;
FILE REFERENCE: ISISO080-100 (COREO016US)
CURRENT APPLICATION NUMBER: US/10/909,125
CURRENT FILING DATE: 2004-07-30
PRIOR APPLICATION NUMBER: US 60/492,056
PRIOR PELING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US 60/516,303
PRIOR PELING DATE: 2003-10-31
PRIOR PELING DATE: 2003-12-19
PRIOR FILING DATE: 2003-12-19
PRIOR FILING DATE: 2004-04-14
PRIOR FILING DATE: 2004-04-14
NUMBER OF SEQ ID NOS: 2184
SOFTWARE: FASESEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGITICIGCCC------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 3.9%;
Best Local Similarity 47.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 343; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTACACGCA 1453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: DNA
; ORGANISM: H. sapiens
US-10-909-125-1747
                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 1747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Basu, Christine
APPLICANT: Basu, Christine
APPLICANT: Basu, Christine
APPLICANT: Basu, Christine
APPLICANT: Baser, Susan M.
APPLICANT: Baser, Brenda F.
APPLICANT: Baser, Inmothy
APPLICANT: Marcusson, Eric G.
APPLICANT: Woller, Erich
APPLICANT: Marcusson, Eric G.
APPLICANT: Marcusson, Eric G.
APPLICANT: Marcusson, Eric G.
APPLICANT: Marcusson, Eric G.
APPLICANT: Bat, Bair
APPLICANT: Bat, Bair
APPLICANT: Brish
APPLICANT: Brish
APPLICANT: Brish
APPLICANT: Brish
APPLICANT: Brish
APPLICANT: Brish
APPLICANT: Graphia Brish
APPLICANT: Gr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCC---ACCCAATGAAGGTTTCTGCCCGTGCCTTGAATCCGGCATTCAAAATGTCAGCAC 1153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAAGATCGAGCCCGTGGTCCTCCCATT 1393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCTCACCTACCATGATTCAGGGGTGTTTGA 1036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             037 AGCCATCCCCACCTATCGCTTCACAGCCCCTAAAACTTTGCCAATGGGTCTGTTA 1096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                           916
                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 TGTGGAGTGGAATAGAAAACGTCGCTGGACGACGACGACGACGGACACGTGCAATATGAT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATTAATCCTTTGACAGGAATTATTTTAAGAGGGSCCAAGAGATTCCAAATCAACACGTA 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGTTAAGAAGCTGGATGACTTTGTGGAAACGGGAAACATTAGGMCTATGKTTTTCCCAGT 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAATGGCACTICCGGGCAGAIGIGGGCACCATICAIGACACCCCAGICCICGCIGGAAIT 976
                                                                    70 cacreracardaacrecreredescracaadareacererrerecreredescrararrir 129
                                                                                                                                                                            130 CAGACCTGACGTCTCCCC-----TAACTTTGGCCTGTTCTATGAGAAATGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 cectrectrictrataccegaeggaacriccarcececegaerecreaacercacar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCCTCACTTCTACAATGCAGACCCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541 TTGCAAGAATGGTGCGCCCATTATCATGTCTTTCCCACACTTTTACCAAGCCGACGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 TAATGATGGGGAGTATGTTTTCTGACTGGAGAGGACAATTACCTGAACTTTACAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                           GGACAGATGGAATGGGCTCAGCAAGGTCAACTACTGGCATTCAGAGCAGTGCAACATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAACGGGACAGACGATTCTTTCACCCATTAATAAGCAAGGATGAGACCCTGTACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGTTGCAGATAAGCCTCTA
                                                                                                                                         797 AGACTCTGGGCTCTTCACTGTGTTCACGGGCGTCCAGAACTTCAGCAAGATCCACCTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 AGGACTGCCTGCTTTTCGGTATAAGGTGCCTGCAGAAATACTAGCCAATTCCTCCGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .214 GCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCCAAGGGAGCATTCTTTGTTCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1394 GCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGAGCC 1432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           dargiarcicaargagagicircicarigacaagagac 819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1747, Application US/10909125
Publication No. US20050261218A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 14
US-10-909-125-1747
                                                                                                                                                                                                                                                                                                                                                                                                        857
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1334
```

```
VS-09-925-05A-515554

VS-09-925-065A-515554

Sequence 515554, Application US/09925065A

Sequence 515554, Application US/09925065A

Publication No. US20040181048A1

GENERAL INFORMATION:

TITLE OF INVENTION: Identification and Mapping of Single

TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome

FILE REPERENCE: 108827.135

CURRENT APPLICATION WHORER: US/09/925,065A

CURRENT FILING DATE: 2001-08-08
                                                                                                                                                                                                                                                                                                                                                                                        CURRENT FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: US 60/243,096
PRIOR FILING DATE: 2000-10-24
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR PILING DATE: 2000-11-20
PRIOR PILING DATE: 2000-11-30
PRIOR PILING DATE: 2000-11-30
PRIOR FILING DATE: 2001-01-6
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: PRAEESEQ for Windows Version 4.0
SEQ ID NO 515554
1544 CAGAAGTCA 1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-515554
```

384 AGGGTCCTGAGGACACCCGTGAGCCAGGCCTGGCCGCTGGGCCTGAGCCGGCCCCCCA 443 1744 GCCCCTACACCCCGCTTCTTGAGGACTCTCCAGCGGACAGTCGC 1788 444 GCCCCTACACCCCGCTTCTCCCGGACTCTCCCAGCGGACAGCCCC 488 셤 g ð

1684 AGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTCAGACCAGCCATCCA 1743

ઠે

Query Match 3.6%; Score 65; DB 6; Length 506; Best Local Similarity 76.2%; Pred. No. 4.9e-08; Matches 80; Conservative 0; Mismatches 25; Indels

0; Gaps

Search completed: February 23, 2006, 18:46:01 Job time : 552.461 secs

THIS PAGE BLANK (USPTO)

Abo27240 Human sca Ad146119 Human sca Adz13464 Human can Adz13466 Human can Adx13466 Human SR-Abb12012 Human SR-Ad495273 Novel pro Aq49573 Human CLA Aao31106 Human CDA Ad56448 Human Pro Ad56444 Human Pro Ad66444 Human Pro Ad66444 Human Pro Ad660210 Human Rra Ad640210 Human SR-Ad662217 Novel pro Ad672317 Novel hum Abf22317 Human SR-Ad652317 Human Rra Ad662217 Human Rra Ad6622317 Human Rra Ad6622317 Human Rra

6 ABO27240 8 ADJ46119 9 ADZ13464 9 ADZ13458	2237 83.4 509 2 AAW213466	2237 83.4 532 4 ABBLZULZ 2237 83.4 532 7 ABB0273 2236 83.4 509 2 AAY49573 2236 83.4 509 6 AAO31106	2236 83.4 510 2236 83.4 510 2234 83.3 506	2203 82.2 509 7 ADE40210 2117 79.0 481 7 ADE08291	2112:5 78.8 537 4 ABG22317 2066:5 77.1 552 6 ABR62035	2066.5 77.1 552 7 ADES5243 2066.5 77.1 552 8 ADP23287	ALIGNMENTS	SULT 1 R88465	ID AAKBS405 BEANDAID; DIOUGIN; 509 AA. XX XA AAR88465;	XX DT 29-MAR-1996 (first entry)	XX DB Hamster scavenger receptor class B-I.	XX KW Scavenger receptor class BI; HaSR-BI; low density lipop: KW atherosclerosis; CHO; Chinese hamster ovary; lipoproteii KW cholesterol.	XX SS Cricetulus sp.	Key			Modified-site 1	FT Modified-site 108. 110	Modified-site 173. 175	Modified-site 112. 1219. Modified-site 713. 124	Modified-site 227	Modified-site 25	FT Modified-site 310, 311, 21	Modified-site 3	FT Modified-site /label= N-glycosylation_site	F1 Domain /40464 FT Domain /label= Putative transmembrane domain		XX PD 04-JAN-1996.
																	. 100 100	ω œ	00 (	r sca	) @ C	BCA	SCA	180	S S S S	can	re re	
occeleration Ltd.		earch time 152 Seconds hout alignments) 341 Million cell updates/sec	.YSESLMSPAAKGTVLQEAKL 509		181	rs: 2443163							ed by chance	ore		Description	1			Adj46121 Human Bc Adi53335 Hammater		Mouse		Mouse		Murine Mouse	Rat Rat	Ade55442 Rat Prote Ade55241 Rat Prote
GenCore version 5 Copyright (c) 1993 - 2006 Bi	in search, using sw model	February 23, 2006, 12:34:44 ; Se (with	US-08-765-108-4 2681 1 MGGSARARWVAVGLGVVGLL	BLOSUM62 Gapop 10.0 , Gapext 0.5	2443163 segs, 439378781 residue	hits satisfying chosen paramete	length: 0 length: 200000000	Minimum Match 0% Maximum Match 100% Listing first 45 summaries				geneseqpz003as;* geneseqpz003bs;* geneseqp2004s;* geneseqp2005s;*	number of results predic	n or equal to the score analysis of the total s	SUMMARIES	Query Match Length DB ID	509 2 509 2	509 2	509 5	2000	509	000	5009	0000	20 0 00 0 00 0	91.3 519 8 ABO84950 91.3 519 8 ADR67033	509 8 510 7	510 7 509 7
·	OM protein - protein	Run on: Fe	Title: US Perfect score: 26 Sequence: 1	Scoring table: BL Ga	Searched: 24	Total number of hi	Minimum DB seq len Maximum DB seq len	Post-processing: M	Database : A	3.53	4. Q. (		No. i	and is derived by	de	Result Qu	2681 2681	2681 2681	2681	2681	2681	2453	2447	2447	2447	19 2447 9 20 2447 9	2444	2444 2430

low density lipoprotein; ovary; lipoprotein receptor;

at positions 21, 251, 280, 321, represent potential disulphide

Š

```
AAW93574 standard; protein; 509
 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                 A new hamster class B-I scavenger receptor, haSR-BI (AAR88465), selectively binds to low density lipoprotein (LDL) and to acetylated LDL. It was obtd. by expression of a cDNA clone (AAT1016) isolated from an expression library prepd. from CHO line Var-261 mRNA. HaSR-BI is used to screen for cpds. that alter binding of scavenger receptor proteins to LDL or modified lipoprotein, to remove LDL from patient blood, to inhibit uptake of lipoprotein or lipids by adipocytes, to develop antiatherosclerosis drugs, to treat some immune disorders and to raise diagnostic or therapeutic antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SKVNYWHSEQCMMINGTSGQMMAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                            Class BI and CI scavenger receptor proteins - used to develop products for treating or preventing atherosclerosis, fat uptake by adipocyte(s) and immune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPJLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VPFYLSVYFFEWNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGGEPLINTFYTOLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 2681; DB 2; Length 509; 100.0%; Pred. No. 3.8e-262; Live 0; Mismatches 0; Indels 0
                                                                                    Rigotti A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                           MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                              Claim 5; Page 57-58; 84pp; English.
                                                                                    Pearson AM,
             95WO-US007721
                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                    Acton SL,
                                                                                                         WPI; 1996-068872/07.
                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
ses 509; Conserv
                                                                                                                      N-PSDB; AAT10116
                                                                                                                                                                                                                                                                                                                                           Sequence 509 AA;
             19-JUN-1995;
                                                                                    Krieger M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                Best Loca
Matches
 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
This invention describes a method for modifying steroid production in a mammal which comprises administering a compound that alters cholesterol or cholesteryl ester transport from high-density lipoprotein (HDL) or other lipoproteins to liver or steroidogenic tissues via SR-BI (scavenger receptor class B type I). This method is useful for female contraception, for treating disorders characterised by overproduction of steroids, for treating disorders characterised by underproduction of steroids, for especially menopause, for treating disorders that can be treated by decreasing steroid production, especially breast cancer, prostate cancer, endometriosis or fibroid tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPBACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                  cholesterol; cholesteryl ester transport; high-density lipoprotein; liver; steroldogenic tissue; SR-BI; contraception; treatment; disorder; overproduction; underproduction; menopause; breast cancer; prostate cancer; endometriosis; fibroid tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modification of steroid production in mammals - by administering modulator of SR-BI expression or activity.
                                                                                                                                                                                                  class B type I; hamster; steroid production;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 2681; DB 2;
100.0%; Pred. No. 3.8e-262;
ive 0; Mismatches 0;
                                                                                                                                    Hamster scavenger receptor class B-I protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure, Page 79-80; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98WO-US018463.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-0057943P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-204984/17.
N-PSDB; AAX23403.
                                                                                                                                                                                                                                                                                                                                                                                                     Cricetulus griseus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9911288-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-SEP-1997;
                                                                  17-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Krieger M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
AAW93574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
```

ö

120 120

RESULT 2

420

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                             LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                 PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGGRAFMRTVGEIL
                                                                                                                                                          WGYEDPFVNFINKYLPDMFPIKGKPGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                     241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                    301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                               LNPDPREHSLFLDIHPVTGIPMNCSVKLOISLYIKAVKGIGGTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                            SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                          AMGGEPLNTPYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPV1YQLRSQEKCPLFWSGSKKG
                                                                                                                                         WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                     SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ą.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABG33056 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94US-00265428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94US-00265428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Krieger M, Acton SL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-689668/74.
N-PSDB; ABS53744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cricetulus griseus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US6429289-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              36-AUG-2002
                                                                                                          121
                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                          361
                   61
                                                                              121
                                                                                                                                         181
                                                                                                                                                                       181
                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABG33056;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABG33056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                    셤
                                                                                                                                         à
                                                                                                                                                                 셤
                                                                                                                                                                                               ò
                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                         셤
                                                                            Š
                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence represents the hamster scavenger receptor class BI (SR-BI) which is used in a method of modulating cholesterol transport. The method comprises selectively altering the transport of lipid, cholesterol and/or lipoproteins (or their components) into and out of mammalian cells to alter plasma cholesterol levels, by administering a compound which alters the expression or activity of the SR-BI scavenger protein receptor. This alters the rate of clearance of the protein component of high density lipoprotein (HDL) as compared to the ester component of HDL. The method may be used to control cholesterol levels in the blood plasma of mammals
FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                           420
                                                                                                                         480
                                                               420
                                                                                                                                          AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modulating cholesterol transport for the control of cholesterol levels in
                                                                                                                                                                                                                                                                                                                                                                                                                     Hamster; scavenger receptor; modulation; cholesterol transport; lipid; lipoprotein; mammalian cell; plasma; expression; clearance rate; HDL; high density lipoprotein; ester; blood.
                                                                              LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIBPVVLPLLWFEQSG
                                                                                                                       AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 2681; DB 2;
Pred. No. 3.8e-262;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                        Hamster Scavenger receptor class BI protein.
                                                                                                                                                                                                       SQDKEAIQAYSESLMSPAAKGTVLQEAKL, 509
                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYPE-) UNIV PENNSYLVANIA.
(MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Col 21-24; 23pp; English.
                                                                                                                                                                                                                                                                                             AAY44019 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96US-00749907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96US-00749907
                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rigotti A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-589717/50.
N-PSDB; AAZ30615.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 509; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                        18-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US5962322-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Krieger M,
                               301
                                                                                           361
                                                                                                                       421
                                                                                                                                                      121
                                                                                                                                                                                    481
 301
                                                              361
                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                blood.
                                                                                   용
                                                                                                                                                                                                                                                                                                            요
                                                           ઠે
                                                                                                                       8
                                                                                                                                                      용
                                                                                                                                                                                  8
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  B1
                                                                                                                                                                  Hamster; scavenger receptor protein type B1; low density lipoprotein;
LDD; cholesterol; endothelial; adipose; macrophage; lipoprotein receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to a new scavenger receptor protein type which selectively binds to low density lipoprotein (LDL) and modified
                                                                                                                                                                                                                                                                                                                                                                                                                          New scavenger receptor protein type B1 useful for screening for drugs that inhibit the uptake of cholesterol in endothelial or adipose cells
                                                                                                                                           Hamster scavenger receptor type B1 (haSR-B1)
481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                        MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Col 29-32; 31pp; English.
```

9

MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMMKEIP

셤

ò

Mon

```
Modified-site
                      Modified-site
                                           Modified-site
                                                              Modified-site
                                                                                  Modified-site
                                                                                                       Modified-site
                                                                                                                                                                                                   02-FEB-1999;
                                                                                                                                                                                                                      23-JUN-1994;
27-MAR-1997;
                                                                                                                                                          US6350859-B1
                                                                                                                                                                              26-FEB-2002
                                                                                                                                                                                                                                                                           Krieger M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local
Matches 50
                                                                                                                                                                                                                                                                                                                                                                                                                                              protein
                                                                                                                            Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                        ö
                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                       360
                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                     VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                        120
                                                                                                                                                                                                             FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                        480
                                                                                                                                                                                                                                                                                                                                                                                                                                            480
lipoprotein with the characteristics of acetylated LDL. The invention is useful for screening for drugs that inhibit the uptake of cholesterol in endothelial or adipose cells or macrophages, and for screening for other lipoprotein receptors. The present amino acid sequence represents the hamster scavenger receptor protein type BI (haSR-BI) of the invention
                                                                                                                           9
                                                                                                                                                9
                                                                                                                                                                              VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                      FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                          LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLFFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                    AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                              SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                  AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                       FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMRTVGEIL
                                                                                                                                                                                                                                                                  WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                  SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                      WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scavenger receptor protein type BI; low density lipoprotein; LDL;
                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="Potential N-linked glycosylation site"
108. .110
/note="Potential N-linked glycosylation site"
/note="Potential N-linked glycosylation site"
/note="Potential N-linked glycosylation site"
                                                                                   509;
                                                                                   Length
                                                                                                       0; Indels

    .32
    'note= "Putative transmembrane domain"

                                                                                  100.0%; Score 2681; DB 5;
100.0%; Pred. No. 3.8e-262;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hamster scavenger receptor type B-I (haSR-BI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAE21523 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                            Best Local Similarity 100.
Matches 509; Conservative
                                                              Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hamster; SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cricetulus
                                                                                                                                                                     61
                                                                                                                                                                                                             121
                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAE21523
                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Key
Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FITTITI
  ឧឧឧឧ
                                                                                                                           ð
                                                                                                                                         셤
                                                                                                                                                                  ò
                                                                                                                                                                                     셤
                                                                                                                                                                                                            8
                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               쉱
```

```
The invention relates to an antibody specific for scavenger receptor protein type B-I (SR-BI) derived from murine and hamster. Antibodies of the invention are useful for detection, characterisation and isolation of receptor proteins and for inhibiting scavenger protein binding to low density lipoprotein (LDL). The present sequence is hamster (ha) SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antibody specific for scavenger receptor protein type B1 useful for detection, characterization or isolation of receptor proteins, as well inhibiting scavenger protein binding to low density lipoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFISHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSARARWYAVGLGVYGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FOPDRSHGSESDY11LPN1LVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGE1L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WGYEDPEVNFINKYLPDMFPIKGKFGLFVEMINSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SKVNYWHSEQCNMINGTSGQMWAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              509;
     "Potential N-linked glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                        710...312
/note= "Potential N-linked glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                               "Potential N-linked glycosylation
                                                                                                                                                                                                                                     383. .385
/note= "Potential N-linked glycosylation
                                                      "Potential N-linked glycosylation
                                                                                                       "Potential N-linked glycosylation
                                                                                                                                                                                                                                                                                            440. .464
/note= "Putative transmembrane domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 2681; DB 5; 100.0%; Pred. No. 3.8e-262;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Col 33-36; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94US-00265428.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99US-00241581
                                                              /L
/note= "PC
310
/note= "Po
227. .229
/note= "Po
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     509; Conservative
                                                                                                                                                                                                                  'note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Acton SL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-314680/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB; AAD33915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 509 AA;
```

ö

9 9 120

```
ADJ46121
ន្តដូចម
                                                                                                                                                                       셤
                                                                                                                                             Š
                                                                                                                                                                                                      à
                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to determining whether a subject has, or is at risk of developing, an abnormally low high density lipoprotein (HDL) level, involves determining the identity of the allelic variant of a polymorphic region of the SR-BI (scavenger receptor BI) gene of the subject, and comparing the allelic variant of the subject with allelic variants associated with abnormally low HDL levels. Also included are a kit for determining whether a subject has, or is at risk of developing, a low HDL level (comprises a probe or primer which is capable of hybridising to an SR-BI gene, and thus identifying whether the SR-BI gene contains an allelic variant of a polymorphic region which is associated with a low HDL level) and predicting the effect of hormone replacement therapy on the HDL level in a female subject (by identifying one or more allelic variants of the SR-BI gene which are associated with abnormally low HDL variants of the SR-BI gene which are associated with abnormally low HDL variants of the SR-BI gene which are associated with abnormally low HDL variants of the subject has a sance of the subject believed.
                                      420
                                                                    480
             420
                                                                                     421 AMGGEPINTFYTQLVIAPQVLQYVQYVILGIGGILLILVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                              high density lipoprotein, HDL, hormone replacement therapy; postmenopausal female; cardiovascular disorder; coronary heart disease; atherosclerosis; stroke; ischaemia; restenosis; congestive heart failure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Determining if a subject has or is at risk of developing abnormally low high density lipoprotein level, involves determining identity of allelic variant of polymorphic region of SR-BI gene of the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      levels in females (espēcially postmenopausal females), thus predicting the effect of hormone replacement therapy on the HDL level in the subject). Also disclosed are methods of treating low HDL levels and resulting cardiovascular disorders (e.g. coronary heart disease, atherosclerosis, stroke, ischaemia, restenosis, congestive heart failure
                           AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                  scavenger receptor BI; SR-BI; cardiant; antilipemic;
                                                                                                                                                                                                                                                                                                                    Human scavenger receptor BI , splice variant
                                                                                                                           509
                                                                                                                                            SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                           SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                 $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Fig 3; 84pp; English.
                                                                                                                                                                                                                              ABO27241 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-00890979.
98US-00031626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-FEB-2001; 2001US-00779152.
                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mccarthy JJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ACTO/) ACTON S L. (MCCA/) MCCARTHY J J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-503489/47.
N-PSDB; ACD44926.
                                                                                                                                                                                                                                                                                                                                                    receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003044782-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-JUL-1997;
27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                       10-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 36-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Acton SL,
                                                                 121
                                                                                                                           481
                                                                                                                                                        481
                                                                                                                                                                                                                                                           ABO27241;
                                                                                                                                                                                                                                                                                                                                                                                                              gangrene.
                              8
                                                                                      g
                                                                                                                                                                                                                                ∙&
                                                                                                                          ð
                                                                                                                                                     셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                        the subject has been identified as having the common allele at residue 41 of exon 8. The present sequence is a SR-BI protein
                                                                                                                                                                                                                                                                                                                                                                 61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; receptor; scavenger receptor class B type 1; CD36L1; SNP; single nucleotide polymorphism; coronary artery disease, atherosclerosis; cardiovascular disease; myocardial infarction; stroke; gangrene; high density lipoprotein; HDL; TG; triglyceride; diabetes; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AMGGEPLNTFYTOLVLMPQVLQYVQYVLLGLGGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKQVVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKVNYWHSEQCUMINGTSGQMWAPFMTPQSSLEFFSPBACKSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                            1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                           Gaps
and gangrene) by administering a compound that increases HDL levels,
                                                                                                                                                                                                         ö
                                                                                                                                                     Length 509;
                                                                                                                                                                                                      0; Indels
                                                                                                                                                  100.0%; Score 2681; DB 6;
100.0%; Pred. No. 3.8e-262;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human scavenger receptor CD36L1 variant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ46121 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-AUG-2002; 2002US-00212848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-AUG-2002; 2002US-00212848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                              Best Local Similarity 100. Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              metabolic disorder
                                                                                                    Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2004023225-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADJ46121;
                                                                                                                                                     Query Match
```

```
The invention relates to determining whether a subject has, or is at risk of developing, abnormally high triglyceride (TG) level or an abnormally comprehence of developing, abnormally high triglyceride (TG) level or an abnormally high TG. High density lipoprotein cholesterol (HDL-C) ratio. Comprises determining whether the subject has an allelic variant of a polymorphic region of the Dijding dense (scaveneger receptor class B type.) I that is associated with abnormally high TG level or TG: HDL-C ratio in a subject, a method for treating a subject having a disease or disorder associated with specific callelic variants of a CD36L1 gene a with specific subject has, or is at risk of developing, abnormally high TG level or an longer than TG: HDL-C ratio (comprising a probe or prime capable of hybridising to a polymorphic region of a CD36L1 gene and identifying whether the CD36L1 gene contains an allelic variant of a polymorphic credion of a CD36L1 gene and identifying whether the CD36L1 gene contains an allelic variant of a polymorphic region of a CD36L1 gene and identifying whether the CD36L1 gene contains an allelic variant of a polymorphic region of a CD36L1 gene and identifying contains an allelic variant of a polymorphic region of a CD36L1 gene and identifying whether the CD36L1 gene contains an allelic variant of a polymorphic region of CG assessing the CD36L1 genetic profile, means for representing the CD36L1 genetic profile, means for obtained subject; a medical information system or D36L1 genetic profile, means for representing the CD36L1 genetic profile, means for representing the CD36L1 genetic profile, means for comptput devile, means for computed and means corresponding an abnormally high TG level or TG: HDL-C ratio), a computerised method of providing medical advice to a subject; a method for developing an abnormally high TG level or TG: HDL-C ratio), a computerised method of providing medical advice to a subject a method for generate a personal health assessment report for an individual and a method s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                    Determining the presence of abnormally high triglyceride (TG) level or TG:high density lipoprotein cholesterol ratio comprises determining if the subject has an allelic variant of a polymorphic region of the CD36L1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSBILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 2681; DB 8;
100.0%; Pred. No. 3.8e-262;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sequence represents a human CD36L1 protein.
                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 4; 80pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
(VITI-) VITIVITY INC
                                                                                      WPI; 2004-224681/21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
Matches 509; Conserv
                                                                                                             N-PSDB; ADJ46120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 509 AA;
                                             Mccarthy J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                          gene.
  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
```

ö

9 9 240

120

The invention relates to a method for screening compounds that alter transport of lipids, cholesterol, lipoproteins or their components, mediated by the SR-Bi scavenger receptor (SR-BI HDL receptor) or a homologue. The test compound is administered to an animal and cholesterol or bile acid levels, production levels of steroid hormones or alterations in chemical composition of lipids, lipoproteins, cholesterol, steroid hormones, bile acids and Vitamin A is measured. Agents that alter transport of lipids, cholesterol or lipoproteins are potentially useful for the treatment or prevention of atherosclerosis, fat uptake by Hamster, SR-BI; scavenger receptor; HDL receptor; lipid; cholesterol; lipportotain; bile acid; steroid hormone; vitamin A; atherosclerosis; adipocyte fat uptake; endocrine disorder; antiarteriosclerotic; receptor; scavenger receptor class BI. 360 INPOPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420 420 480 421 AMGGEPLNTFYTQLVLAMPQVLQYVQYVLLGLGGGLLLLVPVIYQLKSQEKCFLFWSGSKKG 480 241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300 181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240 Screening for agents that influence lipid transport, useful e.g. for treating or preventing atherosclerosis, based on modulation of the SR-BI 301 PTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 361 LNPDPREHSLFLFDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG Hamster SR-BI scavenger receptor polypeptide. 481 SODKEAIQAYSESLMSPAAKGTVLOEAKL 509 Disclosure; SEQ ID NO 2; 22pp; English. SODKEAIQAYSESLMSPAAKGTVLOEAKL Krieger M; ż ADJ53335 standard; protein; 509 24-JUN-2002; 2002US-00178611. 96US-00749907. 06-MAY-2004 (first entry) Kozarsky K, Rigotti A, WPI; 2004-246237/23 KOZARSKY K. Cricetinae gen. sp. RIGOTTI A. KRIEGER M. scavenge receptor. N-PSDB; ADJ53334. US2003167475-A1 15-NOV-1996; 30-AUG-1999; 04-SEP-2003. ADJ53335; 361 481 301 421 (KOZA/) 1 (RIGO/) 1 (KRIE/) RESULT 8 ADJ53335 셤 셤 8 셤 셤 Š ò 8 셤 8

```
US2005136005-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-AUG-2005
                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AEB03938
                                                             rhe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AEB03938
    셤
                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BXSXXXXXXXXXXX
                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ਨੇ
                                                                     ö
                                                                                                                                         VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                             240
                                                                                                                                                                                                                                240
                                                                                                                              VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                      180
                                                                                                                                                                                         180
                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                         FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                            PTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                         9
                                                                                                            9
                                                                                                    MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSPAMWKEIP
                                                                                                                                                                                  FQPDRSHGSESDYIILPNILVLGGAVMBSKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                   AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
adipocytes and some endocrine disorders. This sequence represents the hamster SR-BI scavenger receptor of the invention.
                                                                                       1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                    FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                           WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                      WGYEDPFUNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                   SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                               LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                    AMGGEPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                      Gaps
                                                                     ö
                                                 100.0%; Score 2681; DB 8; Length 509; 100.0%; Pred. No. 3.8e-262;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hamster scavenger receptor class B type I-related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             monoclonal antibody; IgG1/kappa; scavenger receptor class
                                                                    Indels
                                                                      ö
                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                            509
                                                                                                                                                                                                                                                                                                                                                                                                                       SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAY-2003; 2003JP-00152800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-MAR-2003; 2003JP-00063407
                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SR-BI; spermatogenesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYKA-) UNIV KANAZAWA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-810031/80
                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADU51467 standard;
                              Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JP2004331633-A.
                              Sequence 509
                                                          Local Simi
hes 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-FEB-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-NOV-2004
                                                                                                                               61
                                                                                                                                                                     121
                                                                                                                                                                                       121
                                                                                                                                                                                                           181
                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                  361
                                                Query Match
                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4DU51467
                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
 SXSS
                                                                                                         유
                                                                                                                             ð
                                                                                                                                               엄
                                                                                                                                                                     8
                                                                                                                                                                                     g
                                                                                                                                                                                                           ò
                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
Novel monoclonal antibody which belongs to mouse IgG1/kappa subclass and which specifically binds to scavenger receptor class B type I (SR-BI) of rat origin, useful for functional analysis of SR-BI.
                                                                                                                                                                                                                                             IgG1/kappa subclass which specifically binds to scavenger receptor class B type I (SR-BI) of rat origin. The monoclonal antibody of the invention is useful for the detection and analysis of SR-BI. The monoclonal antibody of the invention is useful for analysing the influence of SR-BI on spermatogenesis in testis. The present amino acid sequence represents a golden hamster SR-BI-related protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSARARWVAVGLGGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FQPDRSHGSESDYIILPNILVLGGAVMESKSAGLKLMTIGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGYBDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WGYEDPFVNFINKYLPDMPPIKGKEGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKOOVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 VPPYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 SKVNYWHSBQCNMINGTSGQMWAPFMTPQSSLBFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 AMGGEPINTFYTQIVIAMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                invention comprises a monoclonal antibody that belongs to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antilipemic; transgenic animal; Scavenger Receptor Class B-1; high density lipoprotein receptor; cholesterol; lipid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cch 100.0%; Score 2681; DB 8; al Similarity 100.0%; Pred. No. 3.8e-262; 509; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hamster Scavenger Receptor Class B-1, SEQ ID 2.
                                                                                                                                            Disclosure; SEQ ID NO 2; 21pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
Matches 509; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AEB03938 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cricetulus griseus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 509 AA;
```

Φ

```
WPI; 2004-810031/80.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JP2004331633-A.
                                                                                                                                                                                                                                                                                                                                                       10-FEB-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-NOV-2004.
           241
                                     301
                                                                                                                    361
                                                                                                                                               421
                                                                                                                                                                         421
                                                                                                                                                                                                    481
                                                                                           361
                                                                                                                                                                                                                                                                                     ADU51468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                   ઠે
                                                           셤
                                                                                           ò
                                                                                                               셤
                                                                                                                                              ò
                                                                                                                                                                      셤
                                                                                                                                                                                                 ò
                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                The present invention relaters to a novel genetically engineered mouse, or calls derived from it, where Scavepter Receptor Class B-1 (SR-BI) gene expression or SR-BI activity has been inactivated. SR-BI is a high demsity lipoprotein (InDI) receptor. It was found that estrogen demsity lipoprotein (InDI) receptor, and estrogen also upregulates SR-BI in rat adrenal membranes and other non-placental steroidogenic tissues from animals treated with estrogen, but not in other non-placental non-steroidogenic tissues. Also, overexpression of the SR-BI in the hepatic tissue causes a decrease in blood cholesterol levels. The animal is cusful as a model for designing drugs that can modulate cholesterol transport or that can stimulate or inhibit the binding to and lipid movements mediated by SR-BI and redirect uptake and metabolism of lipids and cholesterol by cells. The present sequence is a SR-BI, which was used to illustrate the invention. Note: The SEQ ID 1 given in the sequence shown in ABBO3337) is stated to be 1788 mucleotides in length. However, there appears to be a 1 to 3 nucleotide deletion at corrected version of the sequence has been produced with Ns added to corrected version of the sequence has been produced with Ns added to replace the missing nucleotides (the sequence shown in ABBO3491). SEQ ID 1 is stated to encode SEQ ID 2 (given in ABBO3393). The SEQ ID 2 given in ABBO3393). The SEQ ID 2 given in ABBO3393). The sequence is the eaguence listing also has a deletion of the sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                       New genetically engineered mouse or derivative cells with inactivated SR-BI gene expression or activity, useful as a model for designing drugs that can modulate cholesterol transport.
                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MGYEDPFVNF1XKYLPDMFPIKGKFGLXVEMNNSDSGLFTVFTXVQNFSKIHLVDRWNGX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDXSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                        present invention relates to a novel genetically engineered mouse,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              94.2%; Score 2525; DB 9;
95.5%; Pred. No. 2.5e-246;
live 0; Mismatches 23;
                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 2; 21pp; English
                                                                                                                                            MASSACHUSETTS INST TECHNOLOGY. UNIV PENNSYLVANIA.
                                                                                                                                                                                       Krieger M;
                                                              94US-00265428.
95WO-US007721.
96US-00749907.
97US-00765108.
                                      2004US-00933037
                                                                                                                                                                                                                               N-PSDB; AEB03937, AEB03941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                      Rigotti A,
                                                                                                                                                                                                                 WPI; 2005-457475/46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
Les 486; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 509 AA;
                                      02-SEP-2004;
                                                              23-JUN-1994;
19-JUN-1995;
15-NOV-1996;
27-MAR-1997;
                                                                                                                      30-AUG-1999;
                                                                                                                                                                                       Kozarsky K,
           23-JUN-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                              (MASI ) (UYPE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Loca
Matches
원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
420
                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                  AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel monoclonal antibody which belongs to mouse IgG1/kappa subclass and which specifically binds to scavenger receptor class B type I (SR-BI) of rat origin, useful for functional analysis of SR-BI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention comprises a monoclonal antibody that belongs to the mouse IgG1/kappa subclass which specifically binds to scavenger receptor class B type I (SR-BI) of rat origin. The monoclonal antibody of the invention is useful for the detection and analysis of SR-BI. The monoclonal antibody of the invention is useful for analysing the influence of SR-BI on spermatogenesis in testis. The present amino acid sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                  301 FTAXKTLFANGSVYPPNEGXCPCLESGIQNVSTCRXGAPLFLSHPHFYNADXVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKBIP
                                                                                                                                                                                                                                                             LNPDPREXSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWXEQSG
                                                                                                                                                                                                                            LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          monoclonal antibody; IgG1/kappa; scavenger receptor class B type I; SR-BI; spermatogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
ن
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse scavenger receptor class B type I-related protein - SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     91.5%; Score 2453; DB 8; Length 509;
89.2%; Pred. No. 5e-239;
.ive 35; Mismatches 20; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 3; 21pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADU51468 standard; protein; 509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a mouse SR-BI-related protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-MAR-2003; 2003JP-00063407.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-MAY-2003; 2003JP-00152800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            UYKA-) UNIV KANAZAWA TLO YG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches 454; Conservative
```

o;

us-08-765-108-4.rag

```
96US-00749907
                                                                                                  Best Local Similarity
                                                                    Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-0CT-1999
                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                     61
                                                                                                                                                                                                          121
                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY44020;
                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAY44020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT
 888888888
                                                                                                                                               셤
                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                    ઠે
                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                   300
                                                                                                                                                                                               420
                                                                                                                                                                                                                    480
                             240
                                                                             240
                                                                                                                                                  FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVIG 360
                                                                                                                                                                             420
                                                                                                                                                                                                                               This invention describes a method for modifying steroid production in a mammal which comprises administering a compound that alters cholesterol or cholesteryl ester transport from high-density lipoprotein (HDL) or other lipoproteins to liver or steroidogenic tissues via SR-BI (scavenger
VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                               SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                       FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                          LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                   FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                          WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                            LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIBPVVLPLLWFEQSG
                                                                                                                                                                                                                   AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                          Scavenger receptor class B type I; mouse; steroid production; HDL; cholesterol; cholesteryl ester transport; high-density lipoprotein; lipoprotein; steroidogenic tissue; SR-BI; contraception; treatment; disorder; overproduction; underproduction; menopause; breast cancer; prostate cancer; endometriosis; fibroid tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modification of steroid production in mammals - by administering modulator of SR-BI expression or activity.
                                                                                                                                                                                                                                                                                                                                                                                         Mouse scavenger receptor class B-I protein.
                                                                                                                                                                                                                                                           509
                                                                                                                                                                                                                                                                        SODKEAIOAYSESLMSPAAKGTVLOEAKL 509
                                                                                                                                                                                                                                                           SODKEAIQAYSESLMSPAAKGTVLOEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 81-82; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                               standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-0057943P
                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-204984/17.
N-PSDB; AAX23404.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9911288-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    05-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                       17-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Krieger M;
                                       121
                                                        181
                                                                            181
                                                                                               241
                                                                                                                   241
                                                                                                                                      301
                                                                                                                                                        301
                                                                                                                                                                                               361
                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                              AAW93575
                   121
                                                                                                                                                                             361
                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                  AAW93575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gb.
                                                                                                                                                                                                                                                                                                            RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mue
                                                                                                                                                                                                                                                                                                                      AAW93575
                                                                                                                                                                                                                                                                                                                               음
                  ò
                                    음
                                                   ઠે
                                                                        8
                                                                                               ð
                                                                                                                ద
                                                                                                                                      ò
                                                                                                                                                       셤
                                                                                                                                                                            ð
                                                                                                                                                                                             셤
                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                            셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGBYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for female contraception,
                                                                                                                                                                                                                                                                                                                                                                                                                                   9
receptor class B type I). This method is useful for female contraceptior for treating disorders characterised by overproduction of steroids, for treating disorders characterised by underproduction of steroids, especially menopause, for treating disorders that can be treated by decreasing steroid production, especially breast cancer, prostate cancer endometriosis or fibroid tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hamster; scavenger receptor; modulation; cholesterol transport; lipid; lipoprotein; mammalian cell; plasma; expression; clearance rate; HDL; high density lipoprotein; ester; blood.
                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSSRARWVALGLGGALGELFFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                             1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LNPDPREHSLFLDIHPVTGIPMNCSVKLOISLYIKAVKGIGOTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                        21; Indels
                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                            91.3%; Score 2447; DB 2; 89.0%; Pred. No. 2e-238;
                                                                                                                                                                                                                                                                                                                     35; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SODKEALOAYSESLMSPAAKGTVLOEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse Scavenger receptor class BI protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SODKEAIOAYSESLMSPAAKGTVLOEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96US-00749907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY44020 standard, protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                        Matches 453; Conservative
```

```
07-MAR-2002 (first entry)
                                                                               Aus musculus
                                                                                                                          22-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                          This sequence represents the mouse scavenger receptor class BI (SR-BI) which is used in a method of modulating cholesterol transport. The method comprises selectively altering the transport of lipid, cholesterol and/or lipoproteins (or their components) into and out of mammalian cells to alter plasma cholesterol levels, by administering a compound which alters the expression or activity of the SR-BI scavenger protein receptor. This alters the rate of clearance of the protein component of high density lipoprotein (HDL) as compared to the ester component of HDL. The method may be used to control cholesterol levels in the blood plasma of mammals
                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVPEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modulating cholesterol transport for the control of cholesterol levels in
                                                                                                                                                                                                                                                                                                                                                                                                                                          FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LNPNPKEHSLFLDIHPVTGI PMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLMFEQSG
                                                                                                                                                                                                                                                                                                                                                 1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                              VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LNPDPREHSLFLDIHPVTGI PMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                           .
0
                                                                                                                                                                                                                                                                                                  91.3%; Score 2447; DB 2; Length 509; 89.0%; Pred. No. 2e-238; Live 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                    MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                      Disclosure; Col 29-32; 23pp; English
                                             Kozarsky
                                                                                                                                                                                                                                                                                                                         Matches 453; Conservative
            UNIV PENNSYLVANIA.
                                            Krieger M, Rigotti A,
                                                                WPI; 1999-589717/50.
N-PSDB; AAZ30616.
                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                              Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                     Query Match
                    MASI )
                                                                                                               blood.
윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
```

```
The present invention describes a method for examining ischaemic conditions, comprising measuring the expression levels of particular genes (1) in a test sample or determining the expression profile of a genes (1) in a test sample or determining the expression profile of a gene group in the sample comprising genes selected from (1). The method is useful for examining the ischaemic condition (e.g. compressive ischaemia or vasospastic ischaemia) by measuring expression levels of particular genes (ABIS9202 to ABIS9912, encoding the protein sequences in ABBS7020 to ABBS7374) or by determining the expression profile of a gene group comprising these genes. The expression indicator when screening for ischaemic condition-improving drugs or therapeutics for ischaemic diseases. ABIS99913 and ABIS9914 represent PCR primers for a mouse ischaemic condition related sequence, which are used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVINGQRAFMRRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Examining the ischemic condition (e.g. occlusive ischemia) by measuring expression levels of particular genes defined in the specification or by determining the expression profile of a gene group comprising these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKOVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
Mouse ischaemic condition related protein sequence SEQ ID NO:202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                              Mouse; ischaemia; compressive ischaemia; occlusive ischaemia; vasospastic ischaemia; ischaemic condition; ischaemic disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91.3%; Score 2447; DB 5; Length 5
89.0%; Pred. No. 2e-238;
ive 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ishii Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Takahashi Y, Nagata T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 2; Page 576-579; 2690pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UYNI-) UNIV NIHON SCHOOL JURIDICAL
                                                                                                                                                                                                                                                                                                                                                                             18-MAY-2001; 2001WO-JP004192
                                                                                                                                                                                                                                                                                                                                                                                                                                        18-MAY-2000; 2000JP-00145977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 89.0
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ishikawa K, Asai S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002-034733/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-034733/
N-PSDB; ABI99330.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 509 AA;
                                                                                                                                                                                                                                     WO200188188-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

ö

Ź

ABB57092 standard; protein; 509

RESULT 14 ABB57092

ABB57092

品数22数.

360

420

us-08-765-108-4.rag

```
FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                        SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                 241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                361 INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFBOSG 420
                                                                               PTAPKTLPANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVIA
                                                                                                                                                                                                                                       LNPDPREHSLFLDIHPVTGI PMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                            SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                               Search completed: February 23, 2006, 12:40:05 Job time : 156.5 secs
                                                                                                                                                                                                          301
         121
                                  121
                                                                181
                                                                                          181
                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                        241
                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                 421
                                                                                    요
                                                                                                                     à
                                                                                                                                              g
                                                                                                                                                                     8
                                                                                                                                                                                                   요
                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                  음
                                                                                                                                                                                                                                                                                                                           셤
                                  셤
                                                               à
                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                          ઠ્ઠ
                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
420
                                                                                                      AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIXQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to an antibody specific for scavenger receptor protein type B-I (SR-BI) derived from murine and hamster. Antibodies of the invention are useful for detection, characterisation and isolation of receptor proteins and for inhibiting scavenger protein binding to low density lipoprotein (LDL). The present sequence is murine SR-BI protein
                                                                                                                      Scavenger receptor protein type BI; low density lipoprotein; \text{LDL}_{\text{i}} murine; \text{SR-BI}_{\text{.}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VPFYLSVYFFEVVNPNEVLAGGKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antibody specific for scavenger receptor protein type B1 useful for detection, characterization or isolation of receptor proteins, as well inhibiting scavenger protein binding to low density lipoprotein.
                                              LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 91.3%; Score 2447; -DB 5; Length 509; Best Local Similarity 89.0%; Pred. No. 2e-238; Matches 453; Conservative 35; Mismatches 21; Indels
                                                                                                                                                                              SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                               SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                       Murine scavenger receptor type B-I (SR-BI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                   Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Col 49-52; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rigotti A;
                                                                                                                                                                                                                                                               AAE21525 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94US-00265428,
97US-00765108,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-00241581
                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Acton SL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-314680/35.
N-PSDB; AAD33917.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          US6350859-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27-MAR-1997;
                                                                                                                                                                                                                                                                                                                         16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Krieger M,
                  301
                                              361
                                                                                                      421
                                                                                                                                 421
                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                             481
                                                                                                                                                                                                                                                                                             AAE21525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                              Mus sp.
                                                                                                                                                                                                                                     RESULT 15
                                                                                                                                                                                                                                                    AAE21525
                  셤
                                             δ
                                                                      셤
                                                                                                    8
                                                                                                                               셤
                                                                                                                                                               ò
                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
```



us-08-765-108-4.rpr

nCore version 1993 - 2006	5.1.7	Biocceleration Ltd.
nCore 1993	version	
	nCore	9
		Copyright

OM protein - protein search, using sw model

Run on:

February 23, 2006, 12:40:25; Search time 26 Seconds (without alignments) 1883.628 Million cell updates/sec

US-08-765-108-4 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues

Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 80:\*
1: pir1:\*
2: pir2:\*
: pir3:\* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		d			SUMMARIES	
	Score	Query Match	Length	DB	ID	ο.
	2681	100.0	509	-	A53920	scavender receptor
~	2424	90.4	529	2	JC5533	
m	2236	83.4	509	٦	A48528	ď
4	752.5	28.1	478	٦	A56525	
S	739	27.6	478	~	JC5670	_
y	738	27.5	478	ч	JH0241	Іувово
7	692	25.8	472	٦	A54870	
œ	_	25.3	472	~	I49590	CD36 antigen - mou
6	673	25.1	472	-	A47402	fatty acid binding
10	900	22.4	519	Н	S38957	epithelial membrar
11	597	22.3	457	-	S43137	D-CD36 protein - f
12	483	18.0	525	N	A59259	sensory neuron men
13	481.5	18.0	534	N	T27054	hypothetical prote
14	412	15.4	536	N	T24000	
15	377.5	14.1	. 531		T20763	
16	369	13.8	290		T20537	
17	353.5	13.2	552		T27424	
18	344		562	~	T15396	
19	113	•	106		T03726	н
20	101		1589		T22668	hypothetical prote
21	100.5	3.7	557		T50788	·
22	100.5	٠	1573		T50113	3-dehydroquinate s
23	100	3.7	968		T07408	lipoxygenase (EC 1
24	99.8		451		F97230	probable maltodext
25	98.5	3.7	427		C87232	probable integral
56	98.5	3.7	448		T44869	
27	98.5	3.7	3036	~	an.	hypothetical prote
28	98	3.7	398	7	S74347	hypothetical prote
29	97	3.6	1026	7	T18220	æ

phospho-n-acetylmu PTS system mannose	PTS system mannose hypothetical prote hypothetical prote	prospectamerates PTS system, mannos htrA-like serine p pilin longus precu	probable nucleotid uncharacterized pr cellulose synthase	hypothetical prote prostaglandin-endo acetylornithine tr viron protein - hu
E71664 AC1087	AB1451 C84682 G87584	C95033 H97199 I41148	833518 B97033 T05351	C70561 JC5063 S61868 T41952
000	0000	9000	000	0000
361	303 756 828	303 303 333 333 333	369 2817 1081	350 603 423 554
 	 	. w w w	W W W	დ დ დ დ 4. 4. 4. 4.
96.5	94 94 94 10 10 10 10 10 10 10 10 10 10 10 10 10	92 93 92 5	92 92.	91 90.5 90
30	2 E E E 2 E E E	3336	33 44 10 14	4 4 4 4 2 6 4 7

## ALIGNMENTS

ö

Gaps ö

Length 509; Indels

Ouery Match 100.0%; Score 2681; DB 1; Best Local Similarity 100.0%; Pred. No. 6.5e-210; Matches 509; Conservative 0; Mismatches 0;

9 9 120

180

240 240

61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120

61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH

셤

ઠે

121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180

FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL

121

ò

셤

셤

ઠ

241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300

241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300

181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL

WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL

181

Š

ద

ò g ò

FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360

셤

ઠે

g ò

ર્જ

```
Alberted to the EMBL Data Library, April 1993

Alberted number: 836656

Alcession: 836656

Alcession: 836656

Alcession: 836656

Almolocule type: mRNA

Algerted number: 1-509 < VEG>
Alcession: 836656

Alcession: 836656

Alcession: 836656

Alcession: 836656

Alcession: 836656

Alcession: 836656

Alcession: A48528

Alfile: Identification, primary structure, and distribution of CLA-1, a novel member of Alcession: A48528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: mRNA
A;Residues: 1-42-143-509 <CAL>
A;Chess-references: UNIPARC: UP10000174241; GB:Z22555
A;Note: this sequence report represents the short form; the long form was also sequenced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 IPFYLSVYFFDVMNPSEILKGEKPQVRERGPYVYRESRHKSNITFNNNDTVSFLEYRTFQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                            membrane glycoprotein CLA-1 protein long form precursor - human N'Alternate names: CD36 and LIMP-II analogous-1 (CLA-1) N'Contains: membrane glycoprotein CLA-1, short splice form C.Species: Homo sapiens (man) C.Species: Homo sapiens (man) C.Species: 07-Apr-1994 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                           509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509;
                                                       481 IYQLRSQEKCFLFWSGSKKGSQDKEAMQAYSESLMSPAAKGTVLQEAKL
                           461 IYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        83.4%; Score 2236; DB 1;
81.3%; Pred. No. 9.5e-174;
cive 46; Mismatches 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Gene: GDB:CD36L1
A;Cross-references: GDB:228074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity 81.3
Matches 414; Conservative
                                                                                                                                                                                                                                                                                                                       Accession: S36656; A48528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                           ð
                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Accession: ĴC5533 T. T. Minegishi, T.; Wakabayashi, K.; Miyamoto, K. R. Mizutani, T.; Sonoda, Y.; Minegishi, T.; Wakabayashi, K.; Miyamoto, K. Botchen. Biophya Res. Commun. 234, 499-505, 1997. Aftitle: Cloning, characterization, and cellular distribution of raf scavenger receptor A; Reference number: JC5533; MUID:97320450; PMID:9177301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ๙
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A, Accession: JC5533
A, Molecule type: mRNA
A, Residues: 1-529 ANIZ>
A, Cross-references: UNIPROT: P97943; UNIPARC: UPI0000177A34
A, Experimental Bource: ovary
C, Comment: This protein is a specific receptor for high density lipoprotein. It plays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 SEVNYWHSEQCNMINGTAGQMWAPFMTPESSLEFFSPEACRSMKLTYQESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 400
                                                                                                  420
                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 VPFYLSVYFFEVVNPSEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 FQPDRSQGSBSDYIVLPNILVLGGAVMMEDKPTSLKLLMTLGLVTWGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                               AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                               LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                             scavenger receptor class B type I precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Sep-1997 #sequence_revision 05-Sep-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 WGYEDPFVNFLSKYFPDMFPIKGKFGLFVGMNDSSSGVFTVFTGVQNFSKIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGVSSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPDTIFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSQPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    --LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361 INPDPKEHSLFLDIHPVTGILNPDPKEHSLFLDIHPVTGIPWNCSVKMQLSLYIKSVKGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GOTGKIEPVVLPLLWFEQSGAMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPV
                                                                                                                                                                        421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GOTGKIEPVVLPLLWFEQSGMMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPI
                                                                                WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 529;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C:Superfamily: lysosomal integral membrane protein II
F;1-25/Domain: signal sequence #status predicted <SIG>
F;466-482/Domain: transmembrane #status predicted <TMM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90.4%; Score 2424; DB 2; 85.6%; Pred. No. 5.2e-189;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity co.cr, Mismatches Matches 453; Conservative 31; Mismatches
                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                               361
                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genetics
                                                                                                                                                                                                                                                                                                                                                                  R
                                                                                                                                                                                                                                                                                                                                                                  RESULT
```

셤 ઠ 셤 ઠે 셤 ò 셤 ò g 8 셤 ò q

ሯ

à å∕

DD 301 FARKILLANGSIPPROMECHELESGOUNCERSEPERATERANGE (10) DD 361 MARCHER MANASIPPROMECHELESGOUNCE (11) DD 361 MARCHER MANASIPPROMECHELESGOUNCE (12) DD 361 MARCHER MANASIPPROMECHELESGOUNCE (12) DD 361 MARCHER MANASIPPROMECHELESGOUNCE (13) DD 421 MAGGEDIATPTTQUIATPTQUIATPTGUIATER (13) DD 421 MAGGEDIATPTTQUIATPTG	360 OY 131 SDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEILMGY	420 Db 130 IDLIRTINIPVLTVIEWSQVHFLREIIEAMLKAYQQKLFVTHTVDELLMGYKDEI 420 Qy 191 INKXLPPMFPIKGKFQLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGLSKVNYWH	480 Db 188	Db 245 CHMINGTBGDSFHPLITYDBVLYFPSDFCRSVYIFSDYGLPAFRXVPABILAN 304  Qy 311 GSVYPPNBGFCPLESGIQNVSTCRFQAPLESHPHFYNADPVLSBAVGLNPDPR 366  Db 305 TSDNAGFCIPBGNCLGSGVLNVSICKNGAPIIMSPPHFYQADERFVSAIEGMHPNQE 361	Qy 367 EHSLFLDIHPVTGIPMCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSGAMGGEP 426	Qy 427 Db 422	utidR		C;Accession: JC5670 R;Tabuchi, N.; Akasaki, K.; Sasaki, T.; Kanda, N.; Tsuji, H. J. Biochem. 122, 756-763, 1997 A;Tille: Identification and characterization of a major lysosoma A;Reference number: JC5670; MUID:98060500; PMID:9399579	- C10	imen ed c	F;474-475/Region: endosomal/lysosomal sorting signal Query Match 27.6%; Score 739; DB 2; Length 478; Best Local Similarity 32.9%; Pred. No. 46-52;	Matches 158; Conservative 103; Mismatches 195; Indels 24; Gaps 9; Qy 15 GVVGLLCAVLGVVMILVMPSLIKOOVLKNVRIDPSSLSFAMWKEIPVPFVLSVYFFEV 72	DD 10 GTLSLLLLVTSVTLLVARVFQKAVDQTIEKNMVLQNGTKVFNSWEKPPLPVYIQFYFFNV	QY         73 VNPSRILKGEKPVVRERGPYVREFRHKANITFNDN-DTVSFVEHRSLHFQPDRSHGSES 131	Qy 132DYIILPNILVIGGAVMMESKSAGLKLAMTLGLATLGQRAFMNRTVGEILWGYEDPFVNF 190  tte (Asn) (covalent) #sta	Qy	PFYLSVYFEV 72	
i wa Salaha a a a a a a a a a a a a a a a a a		PVTGIPMNCSVRLQISLYIKAVKGIGQTGKIEP 	hulmpouloyvoyvligiggelllivpuiyolroge 		e protein II - human LIMP II; lysosomal membrane 85K sial	an) nce_revision 12-Apr-1996 #text_chang 3 ega, M.A.	(CD36L1), and LIMPII (CD36L2) gene fa 5; MUID:95293360; PMID:7539776	th conceptual translation	OT:014108; UNIPARC:UPI000017423A KODO, A.; Tanaka, Y.; Takahashi, T.; nmmun. 184, 604-611, 1992 aquencing of a cDNA clone encoding the 3; MUID:92246940; PMID:1374238	478 <fuj> ARC:UPI0000032D3R: GR:D12676: NID:G219</fuj>	ancreatic islet ndo, J.J.; Alcalde, J.; Noriega, A.G.; 6631, 1994 u(Ile) (475)-Ile(Leu, Val, Ala) (476), c	05; MUID:94165051; PMID:7509809 Borting signal	383649 ter	integral membrane protein II  ; lysosome; transmembrane protein al membrane 85K sialoglyconrofein #sta	lar #status predicted <cyt1> rane #status predicted <tr1> al lumenal #status predicted <llum></llum></tr1></cyt1>	embrane #status predicted <7772> ellular "status predicted <cyt2> mal/lysosomal sorting signal 304,325,412,430/Binding site: carbohyd</cyt2>	%; Score 752.5; DB 1; %; Pred. No. 3.2e-53; 100; Mismatches 187;	WVWILVWESLIKQQVLKNVRIDFSSLSFAMWKEIP   :::	

Feb

Mon

```
INKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGLSKVNYWHSEQ 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Accession: A33357
A;Molecule type: protein
A;Residues: 2,'X',4-6,'X',8-32,'PX',35-36,'F' <TAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Accession: A54870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Accession: JC2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Accession: A47534
                                                              188
                                                                                                                               251
                                                                                                                                                                                                 245
                                                                                                                                                                                                                                                                                                                                 305
                                                                                                                                                                                                                                                                                                                                                                                                  367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    422
                                                       셤
                                                                                                                               Š
                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NID:922
due 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ы
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Vega, M.A.; Segui-Real, B.; Garcia, J.A.; Cales, C.; Rodriguez, F.; Vanderkerckhove, J. J. Biol. Chem. 266, 16818-16824, 1991
J. Biol. Chem. 266, 16818-16824, 1991
J. Fiol. Chem. 266, 16818-16824, 1991
A;Title: Cloning, sequencing, and expression of a cDNA encoding rat LIMP II, a novel 74-A;Reference number: A41180; MUID:91358482; PMID:1715871
A;Accession: A41180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-478 <VEG>
A; Residues: 1-478 <VEG>
A; Coss-references: UNTPARC: UPI0000167995; GB: M68965; NID: 9205206; PIDN: AAA41531.1; PID: A; Cross-references: UNTPARC: UPI000167995; GB: M68965; NID: 9206; PIDN: AAA41531.1; PID: A; Note: parts of this sequence, including the amino end of the mature protein, were conf R; Sandoval, I.V.; Arredondo, J.J.; Alcalde, J.; Noriega, A.G.; Vandekerckhove, J.; Jimen J. Biol. Chem. 269, 6622-6631, 1994
A; Title: The residues Leu(Ile)(475)-Ile(Leu, Val, Ala)(476), contained in the extended c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Reference number: A57905; MUID:94165051; PMID:7509809
A; Contents: annotation; sorting signal
C; Superfamily: 1908omal integral membrane protein II
C; Superfamily: 1908omal integral membrane protein II
C; Reywords: glycoprotein; transmembrane protein II
C; Reywords: glycoprotein; transmembrane predicted <CYTI)
F; 2-470 Mmain: intracellular #status predicted <CYTI)
F; 4-36 / Domain: transmembrane #status predicted <CYTI)
F; 4-35 / Domain: lysosomal lumenal #status predicted <IR2>
F; 43-458 / Domain: intracellular #status predicted <IR2>
F; 459-478 / Domain: intracellular #status predicted <IR2>
F; 459-478 / Domain: intracellular #status predicted <IR2>
F; 459-478 / Region: endosomal/lysosomal sorting signal
F; 475-476 / Region: endosomal/lysosomal sorting signal
F; 45, 68, 105, 122, 206, 224, 249, 304, 325, 412, 430 / Binding site: carbohydrate (Asn) (covalent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Accession: PH0212
A;Molecule type: protein
A;Residues: 2-9;49-67;116-121;228-234;283-294;355-373 <FU2>
A;Cross-references: UNIPARC:UP1000017423B; UNIPARC:UP1000017423C; UNIPARC:UP1000017423D;
                                                                                                                                                                                                                                                                                                                                                                          85K lysosomal membrane sialoglycoprotein - rat
NyAlternate names: 74k lysosomal membrane protein LIMP
C;Species: Rattus norregicus (Norway rat)
C;Date: 23-Nov-1991 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
C;Accession: JH0241; PH0212; A41180
R;Fujita, H.; Ezaki, J.; Noguchi, Y.; Kono, A.; Himeno, M.; Kato, K.
Biochem: Biophys. Res. Commun. 178, 444-452, 1991
A;Title: Isolation and sequencing of a cDNA clone encoding 85KDa sialoglycoprotein in A;Reference number: JH0241; MUID:91315465; PMID:1859403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: mRNA
A;Rosidues: 1-478 «FUU>
A;Cross-references: URIPROT:P27615; UNIPARC:UPI0000167995; GB:D10587; GB:D90532; NID
A;Note: the authors translated the codon CCT for residue 59 as Lys, TAT for residue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         73 VNPSEILKGEKPVVRERGPYVYREFRHKANITFNDN-DTVSFVEHRSLHFQPDRSHGSES 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -DYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEILWGYEDPFVNF 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   486
                                                                                                                                                                                                    422 ANQL-KSVINTTLVVTNIPYIIMALGVFFGLVFTWLACRGQ------GSMDEGTADERA 473
                                  EHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSGAMGGEP 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15 GVVGLLCAVLGVVMIL--VMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVPFYLSVYFFEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       427 LINTEYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKGSQDKEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 478;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 27.5%; Score 738; DB 1; Le
Best Local Similarity 32.3%; Pred. No. 4.9e-52;
Matches 155; Conservative 106; Mismatches 195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Experimental source: liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                132
                               367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                      8
                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
```

```
A; Molecule type: DNA
A; Residues: 1-40 <TA2>
A; Cross-references: UNIPARC: UPI000006EB56; GB: L06849
A; Accession: JC2016
A; Accession: JC2016
A; Molecule type: mRNA
A; Residues: 1-373, 'Q', J75-472 <TAX>
A; Cross-references: UNIPARC: UPI0000160886; GB: L06850; NID: g180116; PIDN: AAA16068.1; PID: A; Cross-references: UNIPARC: UPI0000160886; GB: L06850; NID: g180116; PIDN: AAA16068.1; PID: B; Oquendo, P.; Hundt, B.; Lawler, J.; Seed, B.
Cell S8, 95-101, 1989
A; Title: CD36 directly mediates cytoadherence of plasmodium falciparum parasitized erythn A; Reference number: A30989; MUID: 89324065; PMID: 2473841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cell adhesion receptor CD36 - human N;Alternate names: BR111 protein; collagen type I/thrombospondin receptor; PAS IV; plate] C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Accession: A54870; JC2017; JC2016; A30989; A47534; A33357; D56793; A35577; I59613; A53; R;Armsilla, A.L.; Vega, M.A.
A;Title: Structural organization of the gene for human CD36 glycoprotein.
A;Reference number: A54870; MUID:94308159; PMID:7518447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A Molecule type: DNA
A,Residues: 1.472 - ARRA-
A;Cross-references: UNIPROT:P16671; UNIPARC;UPI0000000051; GB:Z32770; NID:g525232; PIDN:C
R;Taylor, K.T.; Tang, Y.; Sobieski, D.A.; Lipsky, R.H.
Gene 133, 2055212, 1993
A;Title: Characterization of two alternatively spliced 5'-untranslated exons of the humar
A;Reference number: JC2016; MUID:94040811; PMID:7693552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: mRNA
A;Residues: 1-472 <00U>
A;Cross-references: UNIPARC:UPI0000000091; GB:M24795; NID:g178670; PIDN:AAA35534.1; PID:
K;Fernandez-Ruiz, E; Armesilla, A.L.; Sanchez-Madrid, F.; Vega, M.A.
Genomics 17, 759-761, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: mRNA
A;Residues: 144-203 <FER>
A;Cross-references: UNIPARC:UPI00000004E9; EMBL:Z22924; NID:g397604; PIDN:CAA80504.1; PII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Title: Gene encoding the collagen type I and thrombospondin receptor CD36 is located A;Reference number: A47534; MUID:94063924; PMID:7503937
CMMINGTDGDSFHPLISXDETLYIFPSDFCRSVYITFSSFENVEGLPAFRYKVPAEILAN 304
                                                                                                                                                                                                                                                                                                 311 GSVYPPNEGFC----PCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPDPR 366
                                                                                                                                                                                                                                                                                                                                                    SS---ENAGFCIPEGNCMDAGVLAVSICKNGAPIIMSFPHFYQADEKFVSAIKGMRPNKE 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOL-KSVINTTLIVTNIPYIIMALGVFPGLIFTWLACRGO-----GSTDEGTADERA 473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSGAMGGEP 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     427 INTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKGSQDKEA 486
                                                                                                                            CNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYRFTAPKTLFAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CD36)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Note: sequence extracted from NCBI backbone (NCBIP:139701)
R;Tandon, N.N.; Lipsky, R.H.; Burgess, W.H.; Jamieson, G.A.
J. Biol. Chem. 264, 7570-7575, 1989
A;Title: Isolation and characterization of platelet glycoprotein IV
A;Reference number: A33357; MUID:89214205; PMID:2468669
```

ŏ

```
A; Residues: 1-472 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CD36 antigen - mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C; Accession: 149590
                                                                                                                                                                                                                                                                                                                                                   305
             191
                                                                                                253
                                                                                                                                                                                                                                                                                                                                                                                                                                       366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                        ठ
                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Molecule type: protein ;Residues: 'XX',4,'X',6,'X',8-30 <GRE>;Cross-references: UNIPARC:UPI0000174244 ;Cross-references: UNIPARC:UPI0000174244 ;Cross-references: UNIPARC:UPI000174244 ;Wyler, B.; Daviet, L.; Bortkiewicz, H.; Bordet, J.C.; McGregor, J.L. hromb. Haemost. 70, 500-505, 1993 ;Mrithe: Cloning of the cDNA encoding human platelet CD36: comparison to PCR amplified f;Reference number: IS9613; MUID:94082337; PMID:7505064
                                                                                                                                        ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Molecule type: mRNA, Proceeding the process of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Residues: 1-40,144-169,'ILNSLINKSKSSM',170-185 <TA3>
Cross-references: UNIPARC:UP10000174245; GB:L06849
Comment: This protein mediates the interaction of platelets with collagen and thrombos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cross-references: GDB:138800; OMIM:173510

Nap position: 7q11.2-7q11.2

Introns: 40/3; 94/2; 143/3; 185/2

Superfamily: lysosomal integral membrane protein II

Keywords: alternative splicing; blocked amino end; cell adhesion; glycoprotein; lipopr

2-472/Product: cell adhesion receptor CD36 #status predicted <AMI>
2-6/Domain: intracellular #status predicted <AMI>
3-30/Domain: transmembrane #status predicted <AMI>
3-30/Domain: extracellular #status predicted <AMI>
3-3-43/Domain: extracellular #status predicted <AMI>
3-3-43/Domain: extracellular #status predicted <AMI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F;440-466/Domain: transmembrane #status predicted <TM2>
F;450-472/Domain: intracellular #status predicted <CYT2>
F;467-472/Domain: intracellular #status predicted <CYT2>
F;2/Modified site: myristylated amino end (Gly) (in mature form) #status predicted
F;3,7,464,466/Binding site: palmitate (Cys) (covalent) #status predicted
F;79,102,134,163,205,220,235,247,417/Binding site: carbohydrate (Asn) (covalent) #status
                              Catimel, B.; Parmentier, S.; Leung, L.L.; McGregor, J.L. ochem. J. 279, 419-425, 1991
Title: Separation of important new platelet glycoproteins (GPIa, GPIc, GPIc*, GPIIa
Reference number: A56793; MUID:92061944; PMID:1953640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 is related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               133 YIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGBILWGYEDPFVNFIN 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  193 KYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGLSKVNYWHSEQCN 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 73
                                                                                                                                                                                                                                                                                                                                                                         'Experimental source: platelet. Greenwalt, D.E.; Watt, K.W.K.; So, O.Y.; Jiwani, N. iochemistry 29, 7054-7059, 1990
Jitle: PAS IV, an integral membrane protein of mammary epithelial cells, Reference number: A35577; MUID:91027734; PMID:1699598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VIGAVLAVFGGILMPVGDLLIQKTIKKQVVLEEGTIAFKNWVKTGTEVYRQFWIFDVQNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   76 SEILKGEKPV-VRERGPYVYR-EFRHKANITFN-DNDTVSFVEHRSLHFQPDRSHGSESD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       74 QEVMMNSSNIQVKQRGPYTYRVRFLAKENVTQDAEDNTVSFLQPNGAIFEPSLSVGTEAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16 VVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVPFYLSVYFFEVVNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 25.8%; Score 692; DB 1; Length 47; Best Local Similarity 31.5%; Pred. No. 2.6e-48; Matches 144; Conservative 104; Mismatches 189; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                             Molecule type: protein
Residues: 2, 'X', 4-6, 'X', 8-23 <CAT>
Cross-references: UNIPARC:UPI0000174243
Cross-references: UNIPARC:UPI0000174242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Accession: I59613
                                                                                                                                                                                                               cession: D56793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Accession: A53212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gene: GDB:CD36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
```

```
GB:L23108; NID:g567198; PIDN:;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    K.S.; Bryant, C.M.; White, R.T.; Protter, A.A.
                                                                                               313 VYPPNEGFCP-----CLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSBAVLGLNPDP 365
                                                                                                                                                                                                                                ENPONYCECTEKIISKNCTSYGVLDISKCKEGRPVYISLPHFLYASPDVSEPIDGLNPNE 364
                                                                                                                                                                                                                                                                                                                                                       232 GKRNLSYWPS-YCDMINGTDAASFPPFVEKSRTLRFFSSDICRSIYAVFGSEIDLKGIPV 290
----PYPVTTTVGLFYPYNNTADGVYKVFNGKDNISKVAIIDTYKGKRNLSYWES-HCD 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              291 YRFVLPANAFASPLQNPDNHCFCTEKVISNNCTSYGVLDIGKCKEGKPVYISLPHFLHAS 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                  REHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIE-PVVLPLLWFEQSGAMGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14 VIGAVLAVFGGILMPVGDMLIEKTIKREVVLEEGTTAFKNWVKTGTTVYRQFWIFDVQNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            76 SEILKGEKPV-VRERGPYVYR-EFRHKANITFNDND-TVSFVEHRSLHFQPDRSHGSESD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         YIILPNILVLG------GAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -----MFQTRSLKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      179 ILWGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GLSKVNYWHSEOCNMINGTSGOMMAPFWTPQSSLEPPSPEACRSMKLTYHDSGVPEGIPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              YRFTAPKTLFANGSVYPPNEGFCP-----CLESGIQNVSTCRFGAPLFLSHPHFYNAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        352 PVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLOISLYIKAVKGIGQTGKIE-PVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16 VVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVPFYLSVYFFEVVNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LPLLWFEQSGAMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Endemann, G.; Stanton, L.W.; Madden, K.S.; Bryant, C.M.; White, J. Biol. Chem. 268, 11811-11816, 1993
J. Biol. Chem. 268, 11811-11816, 1993
J. Fittle: CD36 is a receptor for oxidized low density lipoprotein. A;Reference number: 149590; MUID:93280144; PMID:7685021
A;Accession: 149590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; DB 2; Length 472; 3.6e-47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: UNIPROT:Q08857; UNIPARC:UPI0000018D7;
C;Superfamily: lysosomal integral membrane protein II
                                                                                                                                                                                                                                                                                                                                                                                                                                                461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 30.4%; Pred. No. 3.6e-47; Matches 143; Conservative 102; Mismatches 178;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25.3%; Score 678;
```

```
A; Cross-references: UNIPROT: Q27367; UNIPARC: UPI000016BB39; EMBL: Z31583; NID: 9468537; PIDN C; Genetics:
A;Cross-references: UNIPROT:Q24336; UNIPARC:UP100000774AD; EMBL:X73332; NID:g429163; PIDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  369 SLRTQVEGISPPMKEKHQFFFDVQPKMGTTLRVRARIQINLAVSQVFDİKQVANFPDİIF 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SVYFFEVVNPSEIL-KGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLHFQPD 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEILWGYE 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VLSEAVLGINPDPRE-HSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVL 411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     412 PLLWFEQSGAMGGEPLNTFYTQLV----LMPQVLQYVQYVLLGLGGGLLLLVPVIYQLR- 465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Drosophila melanogater.
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: S43137, S43136
A;Pescription: d-CD36 : a second Drosophila gene related to the CD36 family b;Reference number: S43137
A;Reference number: S4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       135 LSVGPEDDVVIVPNIPMLSATSQSKHAARFLRLAMASIMDILKIKPFVQVSVGQLLMGYE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240 LSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEG-IPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YRFTAPKTLFANGSVYPPNE-----GFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 RARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVPFYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18 RKWWITI---VVAAALIIGGIVVACEFTVLIDAVVDRMVALRPGAKTFGWWAKPPVEPRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DPFVNFINKYLPDMFPIKGK----FGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNG
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                     44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22.3%; Score 597; DB 1; Length 457;
                                                                                                                                                                                                                                                                                                                                                                          22.4%; Score 600; DB 1; Length 519; 30.3%; Pred. No. 8.9e-41; Artive 88; Mismatches 224; Indels
                                                                A,Gene: FlyBase.emp
A,Cross-references: PlyBase:FBgn0010435
C;Superfamily: lysosomal integral membrane protein II
C;Keywords: transmembrane protein
P;2-19/Domain: transmembrane #status predicted <CYTL>
P;20-39/Domain: transmembrane #status predicted <TML>
F;460-482/Domain: transmembrane #status predicted <TML>
F;460-482/Domain: transmembrane #status predicted <TML>
F;483-519/Domain: intracellular #status predicted <CYT2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       D-CD36 protein - fruit fly (Drosophila melanogaster)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Gene: FlyBase:croquemort
A;Cross-references: FlyBase:FBgn0015924
C;Superfamily: lysosomal integral membrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            466 SQEKCFLFWSGS------KKGSQDKE 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 155; Conservative
                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                   A,Accession: A47402
A,Molecule type: mRNA
A,Molecule type: mRNA
A,Molecule type: mRNA
A,Residues: 1-472 <ABU>
A,Cross-references: UNIPROT:Q07969, UNIPARC:UPI0000155E68; GB:L19658; NID:g310112; PIDN:
C,Superfamily: lysosomal integral membrane protein II
C,Superfamily: lysosomal integral membrane protein
F;2-6/Domain: intracellular #status predicted <TMI>
F;7-30/Domain: extracellular #status predicted <TMI>
F;7-40/Domain: extracellular #status predicted <TMI>
F;440-466/Domain: transmembrane #status predicted <TMI>
F;440-466/Domain: intracellular #status predicted <CYT2>
F;467-472/Domain: intracellular #status predicted <CYT2>
F;79,102,134,205,220,235,247,417/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CD3
                                                                                                                                                                   C;Accession: A47402
R;Abumrad, N.A.; El-Maghrabi, M.R.; Amri, E.Z.; Lopez, E.; Grimaldi, P.A.
D. Biol. Chem. 268, 17665-17668, 1993
A;Title: Cloning of a rat adjocyte membrane protein implicated in binding or transport
A;Reference number: A47402; MUID:93352566; PMID:7688729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C,Accession: S38957
R,Hart, K.; Wilcox, M.
J. Mol. Biol. 234, 249-253, 1993
J. Mol. Biol. 234, 249-253, 1993
A,Title: A Drosophila gene encoding an epithelial membrane protein with homology to A,Teference number: S38957; MUID:94047068; PMID:7693949
A,Accession: S38957
A,Accession: R,MAA
A,Molecule type: mRNA
A,Robecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         239 GLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPT 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     232 GKRNLSYWES-YCDMINGTDAASFPPLGEKSRTLRFFSSDICRSIYAVFESEVNLKGIPV 290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YRFTAPKTLFANGSVYPPNEGFCP-----CLESGIQNVSTCRFGAPLFLSHPHFYNAD 351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIE-PVV 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEILKGEKPV-VRERGPYVYR-EFRHKANITFNDND-TVSFVEHRSLHFQPDRSHGSESD 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YIILPNILVLG-------GAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGE 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ILWGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWN 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            73
                                                                fatty acid binding/transport protein - rat
2,Species: Rattus norvegicus (Norway rat)
2,Date: 19-May-1995 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              epithelial membrane protein - fruit fly (Drosophila melanogaster)
C.Species: Drosophila melanogaster
C.Date: 07-Oct-1994 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVPFYLSVYFFEVVNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LPLLWFEQSGAMGGEPLNTFYTQLVLMPQVLQYVQXVLLGLGGLLLLVPVI 461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25.1%; Score 673; DB 1; Length 472; ilarity 31.0%; Pred. No. 9.2e-47; Conservative 95; Mismatches 182; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
nes 146; Conservat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
```

65 74 adhe

cell

ōĘ

Best Local Similarity 30.9%; Pred. No. 1.3e-40; Matches 135; Conservative 84; Mismatches 198; Indels 20; Gaps 10;	:	3VIYEPNNQFRFSLFGTRN 229
Qy 2 GGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPV 61   :	Qy 213 NS-DSGLFTVFTGVQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMMAPFWTPQSS	INGTSGOMMAPFWIPQSS 271      ::   :  : SPQGTDGTVFPPFLTYKDR 288
OY 62 PFYLSVYFEVVNPSELLKGE-KPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120	OY 272 LEFFSPEACRSMKLTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESG	YPPNEGFCPCLESG 327
Qy 121 FQPDRSHGSESDYILLPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGE-I 179	QY 328 IQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVK   :-	SLFLDIHPVTGIPMNCSVK 387 :     ::     : : SIIADFEPLSGTLMDAKQR 404
QY 180 LWGYEDPFVNFINKYLPDMFPIKGK-FGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDR 236	OY 388 LOISLYIKAVKGIGOTGKIEPVVLPLLWPBOSGAMGGBPLNTFYTGLVLMPQVLQYVQYV     :     :     : : :     : : :     : : :     : : :     : : :     : : : :       : : : :       : : : : :       : : : : :       : : : : : :       : : : : : :       : : : : : :       : : : : : :	FFYTQLVLMPQVLQYVQYV 447    : :: :: :: ALKHQLFIPKRIVGVIRWW 464
QY 237 WNGLSKVNYWHSEQCNMINGTSCQMWAPPMTPQSSLEPFSPEACRSMKLTYHDSGVFE 294	QY 448 LLGLGGLLLLVPVIYQLRSQEKCPLFWSGSKKGSQDKEALQAYSESLMSP ::   :   :   :   :   Db 465 MVSFGLIAVLAGVMYHFKDNIMGWAAKGESTTAKVNPEDGSNEQRGVSVIGQDREPP	KKGSQDKRAIQAYSESLMSP 497 :    ::   :VNPEDGSNEQRGVSVIGQPREPP 521
QY 295 GIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFY 348   :	RESULT 13 127054	
	hypothetical protein Y49E10.20 - Caenorhabditis elegans C.Species: Caenorhabditis elegans C.Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change C.Accession: T27054	_change 09-Jul-2004
Qy 409 VVLPLLWFEQSGAMGGE 425	R,Barlow, K. submitted to the EMBL Data Library, August 1997 A;Reference number: Z20303	·
sol varentations so	A;Accession: 12/034 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule : 1ype: DNA A:Residues: 1-534 <wil></wil>	
A59259  Mensory neuron membrane protein-1 - polyphemus moth	A;Cross-references: UNIPROT:Q9XTT3; UNIPARC:UPI0000083B* A:Experimental source: clone Y49E10	UNIPARC:UP10000083B4E; EMBL:Z98866; PIDN:CAB11566.1;
C;5pFcres: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004 C;Accession: A59259	A:Wap position: 3	
K;kogers, M.E.; Sun, M.; Lerner, M.K.; Vogt, K.G. J. Biol. Chem. 272, 14792-14799, 1997 A:fitle: Snmp-1, a novel membrane protein of olfactory neurons of the silk moth Antherae	A;Introns: 42/3; 105/2; 188/3; 231/3; 359/1; 440/2; 505/3 C;Superfamily: lysosomal integral membrane protein II	
i	Query Match 18.0%; Score 481.5; DB 2; 1 Best Local Similarity 27.7%; Pred. No. 4e-31; Matches 150; Conservative 102; Mismatches 201;	Length 534; Indels 89; Gaps 23;
A; Molecule Type: mkNA A;Residues: 1-525 <rgg> A;Cross-references: UNIPROT:002351; UNIPARC:UPI000007FD51; GB:U95026; NID:G2149911; PIDN A;Experimental source: strain wild</rgg>	QY 16 VVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVP	AMMKEIPVP 62
C;Gener.SNMP1 A;Gene: SNMP1 C;Superfamily: lysosomal integral membrane protein II	OY 63 FYLSVYFFEVVNPSEILK-GEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRS	CANITFNDNDTVSFVEHRS 118
Query Match Best Local Similarity 23.5%; Pred. No. 2.9e-31; Matches: 127; Conservative 108; Mismatches 229; Indels 76; Gaps 15;	119	
QY 8 RWVAVGLGVVGLLCAVLGVVM-ILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIPVPFYLS 66 ::		
Qy 67 VYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANI-TFNDNDTVSFVEHRSLHFQPDR 125	226	
SHGSESDYILLPNILVLGGAVMESKSAG	DD 247 PSPSKIGHLYTWNNMTEMPEGTWDTKYARMINGTDGQLKSPP QY 284 KLTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFC	ALKREDRLIIFVPQICRSI 306 PCLES 326
184	DD 307 QMEYTKDVAVNGVPSWRYAPPLDLYDPALPQNRAFCNKNGMPRYFDNTTVQIENCLPA	SMPRYFDNTTVQIENCLPA 364

8 셤 ò 8 ઠે 8

```
A;Cross-references: UNIPROT:Q19344; UNIPARC:UPI0000079B24; EMBL:Z54270; PIDN:CAA91027.1; A;Experimental source: clone F11C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 338 DCNQYDNFCNACCDGSHVNGTYVMPP--GMVPQRCLPG--QMVPT-PFGA--1LSAPHFY 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    349 NADPVLSEAVLGLNPDPREH--SLFLDIHPVŢĢIPMNCSVKLQISLYIKAVKGIGQTGKI 406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPSEIL-KGEKPVVRERGPYVYREFRHKANITFNDNDT-VSFVEHRS 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62 AVQIWTEHLFNVTNPDEVLYYGATPNMLEIGPYTYTETEFKDFTQFRDNDNEIFYVNNKT 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     119 LHFQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMRRTVGE 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Map position: X
A;Introns: 43/2; 97/2; 122/3; 150/2; 176/3; 219/2; 271/2; 314/3; 419/3; 444/2
                                                                                                                                                             hypothetical protein F11C1.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 31-Dec-2004
C;Accession: T20763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ------ANGS-VYPPNEGFCP--CLESGIQNVSTCRFGAPLFLSHPHFY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 WVAVGLGVVGLLCAVLGVVMILVMP----SLIKQQVLKNVRID---PSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               179 ILWGYEDPFVNFINKYL-----PDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 FVAIILAAVILLVFALGIFLLIPFPIAIFQSIVDSQVYLQQKSDGQLPTGTFY--WSKIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   122 WVYDPTRS-------CEDCKLSDSVQFANTAYMVSGTVTAG-----GT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             229 SKIHLVDRWNGLSKVNYWHSEQCNMINGT-SGQMWAPFMTPQSSLEFFSPEACRSMKLTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       407 EPVVI.PLLWFEQSGAMGG-EPLNTFYTQLVLMPQVLQYVQY------VLLGLG 452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -pvfqslamtimsnapnaimpsftltigvvmkdyavnyiyfntvtipnivlglg 488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
14.1%; Score 377.5; DB 2; Length 531;
Best Local Similarity 24.9%; Pred. No. 1.1e-22;
Matches 133; Conservative 66; Mismatches 196; Indels 139;
                          426 PLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLR
                                                                                                                                                                                                                                                                                                     A;Reference number: 219321
A;Accession: T20763
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
                                                                                                                                                                                                                                                            R,Palmer, S.
submitted to the EMBL Data Library, September 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search completed: February 23, 2006, 12:46:03
Job time : 29 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          288 HDSGVFEGIPTYRFTAPKTLF-----
                                                                                                                                                                                                                                                                                                                                                                                                      A; Residues: 1-531 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Genetics:
A;Gene: CESP:F11C1.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
       à
                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:Q09606; UNIPARC:UPI000013BFF1; EMBL:Z48621; PIDN:CAA88547.1;
A;Experimental source: clone R07B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Introns: 39/3; 98/2; 148/3; 182/2; 205/3; 234/3; 284/1; 362/2; 393/1; 439/3; 464/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | | | | | : : | | | | : : : | | SFKRIYWQENVDYFPDWCDKNTITSL 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EHS-LFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSGAMGGE 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G-SESDYIILPNILVLGGAVMM----ESKSAGLKLMMTLGLATLGQRAFMNRTVGEILW- 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMKLTYHDSGVFEGIPTYRFTAP----KTLFANGSVYPPNE---GFCP--CLESGIQNV 331
                                                                                              473 FNAKHYSFIGGVISLSLGLIAWLAVFVVIIVYSRQSDEEEYGRLVLEDEDEEPAQDENAV 532
                               425 KRIMQIN--VGMVKGSLSVTENTTNVVVÞVLMMNE------TAYFDQGTRDQLINI 472
                                                                                                                                                                                             138 PQVLQY-----VQYVLLGLGGLL--LLVPVIYQLRSQEKCF---LFWSGSKKGSQDKEAI 487
       GIQNVSTCRFGAP-LFLSHPHFYNADPVLSBAVLGLN-PDPREHSLFLDIHPVTGIPMNC 384
                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein R07B1.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct.1999 #sequence_revision 15-Oct.1999 #text_change 09-Jul-2004
C;Accession: T24000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16 VVGLLCAVLGVVMILVMPSLIKQQVLKNVRI---DPSSLSFA--MWKEIPVPFYLSVYFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   71 EVVNPSEI-LKGEKPVVRERGPYVYREPRHKANITFNDNDTVSFVE-HRSLHF-QPDRSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        182 GYEDP-----FVNFIN-----KYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  225 VONFSKIHLVDRWNGLSKV--NYWHSEQCNMING-TSGQMWAPFWTPQSSLEFFSPEACR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15.4%; Score 412; DB 2; Length 536, 23.8%; Pred. No. 1.8e-25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 23.86; ricu. No. 10. 11. Marches 124; Conservative 109; Mismatches 213; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-536 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Kershaw, J. submitted to the EMBL Data Library, March 1995 abbmitted to the EMBL Data Library, March 1995 A;Accession: T24000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gene: CESP:R07B1.3
                                                                                                                                                                                                                                                                                       488 QA 489
                                                                                                                                                                                                                                                                                                                                     533 LA 534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Map position: X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                           RESULT
```

g

ð g ò g 8

셤

셤 8 셤 ò

8

원 ò 요 2

```
THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sus scrofa
bos taurus
homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 norv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   norv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          homo sapien
oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tetraodon n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 brachydanio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tetraodon n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            brachydanio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mus musculu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tupaia glis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rattus norv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       oncorhynchu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rattus norv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       xenopus lae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         brachydanio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          xenopus lae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mus musculu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mus musculu
                                                                                                          February 23, 2006, 12:35:04; Search time 147.5 Seconds (without alignments) 2434.671, Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rattus nor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q60417 cricetulus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rattus
                                                                                                                                                                                                                            1 MGGSARARWVAVGLGVVGLL......YSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q61009
Q4fk30
P97943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q68r89
Q6t8f1
Q52lz5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q6wiw9
Q6b4i7
Q8sqc1
018824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        059fm4
Q6wiw8
Q481t9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07zyx0
04sj63
064hw6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          053y63
08jgr8
035114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q5bke5
Q5zli8
Q925w0
Q6imx5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P27615
Q5xh33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 088548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q8wtv0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        014108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q6dhc7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07zt16
5.1.7
Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                  2166443
                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                       2166443 segs, 705528306 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCRB1_MOUSE
Q4FK3 0 MOUSE
CREB1_RAT
088548_RAT
0667849_RAT
0667841_TUPGB
052125_HUMAN
06M1M9] RABIT
CRB1_BOVIN
SCRB1_BOVIN
SCRB1_HUMAN
059FM4_HUMAN
069FM4_SCRB2_HUMAN
069FM5_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CHICK
RAT
RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMMARIES
GenCore version
Copyright (c) 1993 - 2006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SCRB1_CRIGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                        - protein search, using sw model
                                                                                                                                                                                                                                                                BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26IMX5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    UniProt_05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*
                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query
Match Length DB
                                                                                                                                                                                         US-08-765-108-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0
                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                  Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2227
2215.5
2215
2215
2215
206.5
2066.5
2066.5
1415.5
797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   772.5
751.5
751.5
740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      709.5
709
707.5
702
699
                                                                        OM protein
                                                                                                                                                                                                                              Sequence:
                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database
                                                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Result
No.
```

```
Treceptor.",

1. Biol. Chem. 269:21003-21009(1994).

2. FOUNCTION: Receptor for different hispands such as phospholipids,

3. cholesterol ester, lipoproteins, phosphatidylserine and apoptotic

3. cholesterol ester, lipoproteins, phosphatidylserine and apoptotic

4. cholesterol ester, lipoproteins, phosphatidylserine and apoptotic

5. cells. Probable receptor for HDL, located in particular region of

6. cells. Probable receptor for HDL, located in particular region of

7. cells. Probable receptor for HDL, located in particular region of

8. cells. Probable receptor for HDL, located in particular region of

8. cells. Probable receptor for HDL, located in particular region of

8. extent, apoB-containing lipoproteins and modified lipoproteins.

8. Probably involed in the phasocytosis of apoptotic cells, via its

9. phosphatidylserine binding activity (By similarity)

9. cells. PTM: N-glycosylated (By similarity)

9. cells. PTM: N-glycosylated (By similarity).

9. cells. SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                               mesocricetu
tetraodon n
mus musculu
mus musculu
                                                                                                                                       fasc
                                                               anopheles g
macaca mula
                                                                                                                                                                                                                                                                                                              rattus norv
                                                                                                                                                                                                                                                                                                                                          bos taurus
                                                                                                                                                                                                                                                                                                                                                                                 drosophila
                                                                                                                                                                                                                                                                                                                                                                                                             drosophila
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia, Sciurognathi,
Muroidea, Cricetidae, Cricetinae, Cricetulus.
   rattus
                                                                                                                                       macaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Ovarian carcinoma;
MEDLINE=94342261; PubMed=7520436;
Acton S.L., Scherer P.E., Lodish H.F., Krieger M.;
"Expression cloning of SR-BI, a CD36-related class B scavenger
                                                                                                                               Q4r6b4 n
P70110 n
Q48ac1 t
Q08857 n
Q8c6z4 n
Q07969 z
                                                                                                                                                                                                                                                                                                                                   P26201
Q8igy0
Q7kvf1
Q9w0x0
                                                                                               06j512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-OCT-2003 (Rel. 42, Created)
110-OCT-2003 (Rel. 42, Last sequence update)
113-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-BI) (HaSR-BI).
                                                                   274950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL, U11453; AAA61572.1; -; mRNA.
PIR, A53920; A53920.
InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36.antigen.
PANTHER; PTHR11923; CD36; 1.
PRINTS; PR01609; CD36; 1.
PRINTS; PR01609; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
TOPO, DOM 1.
TRANSMEM 12 Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            509 AA
                                                 CD3 & HOWAN
06J512_MACMU
04R6B4 MACFA
06J512_MACMU
04SAG1_TETNG
CD36_MGUSE
08G6Z4_MOUSE
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_AG1
CD36_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                          Q8IGYO DROME
Q7KVF1 DROME
Q9WOXO DROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cricetulus griseus (Chinese hamster)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=10029;
Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CRIGR
696
698
698
688
688
688
673
673
647
647
647
557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SCRB1 C
Q60417;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CRIGR
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                             FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                      PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                      SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                         9
                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                         WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                AMGGEPLNTFYTQLVLMPQVLQYVQYVLGLGGGLLLLLVPV1YQLKSQEKCFLFWSGSKKG
                                                                                                                                                                                               1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMMKEIP
                                                                                                                                                                                                                             VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                              181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                      LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGOTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     [1] "NUCLEOTIDE SEQUENCE.MEDLINE=96152374; PubMed=8560269;Acton S., Rigotti A., Landschulz K.T., Xu S., Hobbs H.H., Krieger M.;
                                                                                                                                                                                    1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Glires; Rodentia; Sciurognathi;
                                                                                                                                                                  0; Gaps
                 Overplasmic (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
N-linked (GlcNAc. .) (Potential).
                                                                                                                                          Query Match 100.0%; Score 2681; DB 1; Length 509; Best Local Similarity 100.0%; Pred. No. 8.7e-201; Matches 509; Conservative 0; Mismatches 0; Indels 0
 Extracellular (Potential)
                                                                                                                        1A7C0F5F6CB61A17 CRC64;

        SCRB1
        MOUSE
        STANDARD;
        PRT;
        509 AA.

        061009;
        Q9CWJ7;
        Cloor-2003 (Rel. 42, Created)

        10-0CT-2003 (Rel. 42, Last sequence update)
        13-SEP-2005 (Rel. 48, Last annotation update)

        13-SEP-2005 (Rel. 48, Last annotation update)
        Scavonger receptor class B member 1 (SRB1) (SR-BI).

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SODKRAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Muroidea; Muridae; Murinae; Mus.
                                                                                                                        56735 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=Scarbl; Synonyms=Srbl;
Mus musculus (Mouse).
                                                                                                  330
383
509 AA;
 33
441
462
102
108
173
212
227
TOPO DOM
TRANSMEM
TOPO DOM
CARBOHYD
                                                                              CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                 CARBOHYD
CARBOHYD
                                                                                                                       SEGUENCE
                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                      음
                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                        ठे
```

```
Tridentification of scawnger receptor SR-BI as a high density

Ilioporchain receptor.

BY STEATHWOOLD SCALE MRNN.

ROAZEAK Y. FULLOW M. Kanadara T. Adachi J. Das Don H. Knodo S.,

RA NISHAGOT TISSUFFACTAGE.

RECEPTOR SCORNEY TISSUFFACTAGE.

RECEPTOR TO SCALE STATES STATES STATES TO STATES THE STATES STATES.

RECEPTOR TO SCALE STATES STATES STATES TO STATES THE STATES STATES STATES.

RECEPTOR TO SCALE STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STATES STAT
```

420 480

ო

```
PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                       FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                       LINENDREHSLFLDIHPVTGIPMNCSVK@QLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SKIDYWHSEQCNMINGTSGQMWADFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
          FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                  AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                  Mus musculus (Mouse).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;

Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSSRARWVALGLGALGELFPALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGWWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #GYDDPPVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LINENPKEHSLFLDIHPVTGI PMNCSVKMOLSLY I KSVKGIGOTGKI BPVVLPLLWFEQSG
                                                                                                               LNPDPREHSLFLDIHPVTGI PMNCSVKLQISLYI KAVKGIGQTGKI EPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ebert L., Muenstermann E., Schatten R., Henze S., Bohn E., Mollehlauer J., Wiemann S., Schick M., Korn B., Cloning of mouse full open reading frames in Gateway(R) system entry vector (pDONR201)."; to the EMBL/GenBank/DDBJ databases. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. EMBL, CT010222; CAJ18430.1; -: mRNA. SEQUENCE 509 AA; 56754 MW; 5CFCDD6ECBIC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGYEDPFVNFINKYL,PDMFPIKGKFGL,FVEMNNSDSGL,FTVFTGVQNFSKIHL,VDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       91.3%; Score 2447; DB 2; 89.0%; Pred. No. 1.7e-182;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 453; Conservative 35; Mismatches
                                                                                                                                                                                                                                                                                                                     SODKEAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                  481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q4FK30 MOUSE PRELIMINARY;
Q4FK30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scarbl protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=Scarb1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                             301
                                                                                                             361
                                                                                                                                                             361
                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
          301
                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                               3
MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
                                                     a
                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                          ઠે
                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                     This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the FNBL outstation the European Bioinformatics. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WCYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQEAK
L. -> GPEDIYSPPNLTAMSDQPSPYTPLLEDSLSGQPTS
AMA (in Ref. 2, BAB27068).
SCFCDD62DD6ECB1C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSSRARWVALGLGALGLFAALGVVMILMVPSLIKQQVLKOVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SKVNYWHSEQCNMINGTSGQMWAPPMTPQSSLEFPSPBACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                               EMBL; AK010622; BA227068.1; "mRNA.
EMBL; AK028191; BAC25802.1; -; mRNA.
EMBL; AK028191; BAC25802.1; -; mRNA.
EMBL; AK023114; BAC28157.1; -; mRNA.
EMBL; AC033114; BAC28157.1; -; mRNA.
EMBL; BC004656; AAH04656.1; -; mRNA.
ENBEL; BC0016599; C:caveolar membrane; IDA.
GO; GO:000299; C:integral to membrane of membrane fraction; IDA.
GO; GO:0005887; C:integral to plasma membrane; IDA.
InterPro; IRR002159; CD36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Potential) (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Potential) (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Potential) (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          91.3%; Score 2447; DB 1; Length 509;
89.0%; Pred. No. 1.7e-182;
tive 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytoplasmic (Potential).
Potential.
Extracellular (Potential).
Potential.
Cytoplasmic (Potential).
N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-linked (GLGNAC...) (Pote N-l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -> F (in Ref. 2; BAB27068)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GlcNAc. ..)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GlcNAc
steroidogenic tissues.
PTM: N-glycosylated (By similarity).
SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-linked
N-linked
N-linked
S -> F (in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Glycoprotein; Receptor; Transmembrane.
TOPO DOM 1 11 Cytoplasm
TRANSMEM 12 32 Potential
TRANSMEM 441 461 Potential
TOPO DOM 462 509 Cytoplasm
                                                                                                                                                                                                                                                               EMBL; U37799; AAC52378.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR005428; CD36_antigen
PANTHER; PTHR11923; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             509 AA; 56754 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF01130; CD36; 1.
PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             462
102
108
116
173
212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Simi
Matches 453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                               removed
```

ö

Gaps

120 120 180 180 240 240 300 300

> 8 셤 ઠે g Š 셤 ò 요 ò

9

us-08-765-108-4.rup

```
453; Conservative
                                                                                                                                                                                                                                                                                 330
383
309 AA;
                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                              12
33
33
441
102
108
1116
1173
2212
2212
2213
310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                       TOPO DOM
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                      TOPO DOM
TRANSMEM
                                                                                                                                                                                                                       CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                        CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                 CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                   SEQUENCE
                                          removed.
                                                                                                                                                                                                                                                                                                                              Best Local
Matches 49
요
                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                        음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                    AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                        STRAIN=Wistar; TISSUE=Ovary;
PubMed=9177301; DOI=10.1006/bbrc.1997.6646;
Mizutani T., Sonoda Y., Minegishi T., Wakabayashi K., Miyamoto K.;
"Cloning, characterization, and cellular distribution of rat scavenger receptor class B type I (SRBI) in the ovary.";
Biochem. Biophys. Res. Commun. 234:499-505(1997).
                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                            STRAIN=Donryu; TISSUE=Testis;
MEDLINE=22128898; PubMed=12016218; DOI=10.1074/jbc.M202879200;
Kawasaki Y., Nakagawa A., Nagaosa K., Shiratsuchi A., Nakanishi Y.;
"Phosphatidylserine binding of class B scavenger receptor type I, a
phagocytosis receptor of testicular Sertoli cells.";
J. Biol. Chem. 277:27559-27566(2002).
                                                                                                                                                                                                                                                                                                                                                                                              TISSUB=Lung;
NIH - Mammalian Gene Collection (MGC) project;
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                               STRAIN=Sprague-Dawley; TISSUE=Liver;
Johnson S.C.M., Svensson P.A., Carlsson B.;
Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.
                                                                                                           10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-BI)
                                                                                           509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PTM: N-glycosylated.
SIMILARITY: Belongs to the CD36 family
                                           SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE, AND GLYCOSYLATION.
                                                                                           STANDARD;
                                                                                                                                                     Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                 INTERACTION WITH PDZK1
                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE
                                                                                                                                                                                       NCBI_TaxID=10116;
                                                                                                                                             Name=Scarb1;
                                                                                           SCRB1 RAT
                                 481
                                                                                                   P97943;
                                                                           RESULT 4
SCRB1_RAT
                                                                                                                                                                                                                                                                                                                                                                                                                          2
                                                                                            셤
                                 ð
                                                 g
```

```
This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstantin the Buropean Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPSEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INPOPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLMFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 SEVNYWHSEQCNMINGTAGQMWAPFMTPESSLEFFSPEACRSMKLTYQESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421 MMGGKTLNTFYTQLVIAMPQVIHYAQYVILGIGGILILVPIIYQLRSQEKCFIFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LNPDPKEHSLFLDIHPVTGIPMCSVKWQLSLYIKSVKGVGQTGKIEPVVLFLWFEOSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGVSSRARWVALGLGVLGCALCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Potential).
(Potential).
(Potential).
(Potential).
(Potential).
(Potential).
(Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             792A0BBE8D11A105 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cycontagmic (Potential).
N-linked (GlCNAC...) (FN-linked (GlCNAC...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytoplasmic (Potential). Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                91.2%; Score 2444; DB 1;
89.0%; Pred. No. 2.9e-182;
iive 31; Mismatches 25;
                                                                                                                                                                                                                                                                                                                                                    EMBL; AB002151; BAA74541.1; -; mRNA.
EMBL; BC076504; AAH76504.1; -; mRNA.
PIR; JC5533; JC5533.
Ensembl; ENSRNOG0000000981; Rattus norvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Glycoprotein; Receptor; Transmembrane.
TOPO DOM 1 11 Cytoplasm
TRANSMEM 12 32 Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Potential
                                                                                                                                                                                                                                                                  EMBL; U76205; AAB19203.1; -; mRNA.
EMBL; D89655; BAA14004.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36_antigen.
PANTHER; PTHR11923; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             56957 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam; PF01130; CD36; 1.
PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
```

```
CD36ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS; PR01610; CD36ANTIGE
PRINTS; PR01609; CD36FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 88.4%
Matches 450; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               acid in the rat ovary.";
Endocrine 9:243-252(1998).
                                                                                                                                                                                 QESR89 RAT PRELIMINARY;
QESR89;
                                                                                                                                                                                                                                                                                                                                                                                                           Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                        Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PF01130; CD36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                  WCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                     Name=Scarb1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                               RAT
                                                                                                                                        RESULT
                                                                                                                                                                                                           A PACE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE 
                              à
                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 VPFYLSVYFFEVVNPSEVLAGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 POPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLAMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKVNYWHSEQCNMINGTSGOMWAPFMTPOSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSQPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LNPDPREHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIRPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AMGGEPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421 MMGGKTLANTFYTÓLVLAPQVLHYAQYVLLGLGGLLLLLVPIIYOLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                          Rattus norvegicus (Rat).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Buarchontoglires, Glires, Rodentia, Sciurognathi,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ξ.
                                                                                                                                                                                                  01-NOV-1998 (TrEMBLrel. 08, Created)
01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-UNN-2003 (TrEMBLrel. 24, Last annotation update)
Type II pneumocyte CD36-related class B scavenger receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kolleck I., Schlame M., Fechner H., Looman A.C., Wissel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (JUN-1998) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               509 AA; 57152 MW; 1272E4FE824AD7F8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match

90.6%; Score 2430; DB 2;
Best Local Similarity '88.4%; Pred. No. 3.6e-181;
Matches 450; Conservative 32; Mismatches 27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL. AF071495; AAC23892.1; -; mRNA.
ENSEND1; ENSRNOG0000000981; Rattus norvegicus.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO:0007155; P:receptor activity; IEA.
InterPro; IPR002159; CD36.
InterPro; IPR002159; CD36.
InterPro; IPR002159; CD36.
                                                                                                                                                          509 AA
PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                   Muridae; Murinae; Rattus
                                                                                                                                                      OB8548 RAT PRELIMINARY;
088548;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN-Wistar
                                                                                                                                                                                                                                                                                            Name=SRB1R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ruestow B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                              RESULT 5
                                                                                                                                      088548
                                         g
  ઠ
                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
```

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 VPFYLSVYFFEVVNPSEVLNGQKPVVRERGEPYVIREFRQKVNITFNDNDTVPYIENRSLR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Expression and hormonal regulation of the high-density lipoprotein (HDL) receptor scavenger receptor class B type I messenger ribonucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGVSSRARWVALGLGVLGFLCAALGVIMILMVPSLIKQQVLKOVVRIDPSSLSFGWWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 WGYEDPFVNFINKYLPDMPPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia, Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=Sprague-Dawley, TISSUE-Steroidogenic tissues;
MEDLINE=20043932; PubMed=10579331; DOI=10.1210/en.140.12.5669;
Lopez D., McLean M.P.;
"Sterol regulatory element-binding protein-la binds to cis eleme
the promoter of the rat high density lipoprotein receptor SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=Sprague-Dawley, TISSUE=Steroidogenic tissues;
MEDLINE=99236778; PubMed=10221589; DOI=10.1385/ENDO:9:3:243;
McLean M.P., Sandhoff T.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN-Sprague-Dawley; TISSUE-Steroidogenic tissues;
McLean M.P., Sandhoff T.W., Lopez D.;
Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY451993; AAR16387.1; -; mRNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0007155; P:cell adhesion; IEA.
InterPro; IPR002159; CD36.
InterPro; IPR002428; CD36.antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               56859 MW; EA0A76ECD207706C CRC64;
                                                                                                                                                                                                                                                                                                                   Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      90.4%; Score 2424; DB 2; 88.4%; Pred. No. 1.16-180; ive 31; Mismatches 28;
                                                                                                                                                                                                                       509 AA
481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                               05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last seq
05-JUL-2004 (TrEMBLrel. 27, Last ann
                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indocrinology 140:5669-5681(1999).
                                                                                                                                                                                                                                                                                                                                                                              Scavenger receptor class B type 1
```

420 420 480

```
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                     241 SKVNFWHSDQCNMINGTSGQMWAPFMTPESSLEFYSPEACRSMKLIYQEPGVYEGIPTYR
                                                                                                                                                                    361 LHPNQEEHSLFLDIHPVTGIPMNCSVKLQLSLYIKAVKGIGQTGKIEPVVLPLLWFGESG
                                           SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                         AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                    LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    56973 MW; 0184AE9CEC595374 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                    Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sci. U.S.A. 99:16899-16903(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 2244; DB 2;
Pred. No. 1.2e-166;
                                                                                                                                                                                                                                                                                                                                                            509 AA
                                                                                                                                                                                                                                                              509
                                                                                                                                                                                                                                                                             481 SODKEALQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                             Scavenger receptor class B, member 1.
                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (APR-2005) to the EMBL/Ger
EMBL; BC093732; AAH93732.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83.7%;
81.5%;
                                                                                                                                                                                                                                                                                                                                                                         Q52LZ5;
13-SEP-2005 (TrEMBLrel. 31,
13-SEP-2005 (TrEMBLrel. 31,
13-SEP-2005 (TrEMBLrel. 31,
                                                                                                                                                                                                                                                                                                                                                            Q52LZS HUMAN PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cDNA sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NIH MGC Project;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'ISSUE=Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and mouse
                181
                                           241
                                                                                                301
                                                                                                                                                      361
                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                RESULT
Q52LZ5
                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                               g
                                          ð
                                                                  셤
                                                                                                Š
                                                                                                                                                   ò
                                                                                                                                                                              셤
                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 VPFYLSVYFFDVLNPNEILKGEKPQVRERGPYVYREFRHKSNITFNDNDTVSYLEYRSFR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                        300
                                                                                                             360
                                                                                                                                      INPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                 420
                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                  FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
  WGYEDPFVNFLSKYFPGMFPIKGKFGLFVGMNDSSSGVFTVFTGVQNFSKIHLVDKWNGL 240
                             SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEPPSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                         421 MMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIIYQLRSQEKCFLFWSGSKKG
                                                                                                 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSQPHFYNADPVLSEAVLG
                                                                                                                                                                361 INPOPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLPLIMFEQSG
                                                                                                                                                                                            AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPV1YQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGRARARWVAVAVGVTGLLCAVLGAVMIVWVPSLIKQQVLKNVRIDPTSLSFNNMKEIP
                                           SEVNYWHSEQCUMINGTAGQMWAPFWTPESSLEFFSPEACRSMKLTYQESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Barth H., Cerino R., Arcuri M., Hoffmann M., Schurmann P., Adah M.I., Gisaler B., Zhao X., Ghisetti V., Lavezzo B., Blum H.E., VON Weizascker F., Vitelli A., Scarselli E., Baumert T.F.; Scavenger Receptor Class B Type I and Hepatitis C Virus Infection of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                       Tupaia glis belangeri (Common tree shrew).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Scandentia; Tupaiidae; Tupaia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match

84.3%; Score 2260; DB 2; Length 509;
Best Local Similarity 81.3%; Pred. No. 6.9e-168;
Matches 414; Conservative 49; Mismatches 46; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             509 AA; 57369 MW; FOA3FBB1431FFB18 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                     Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                            509 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Primary Tupaia Hepatocytes.";
J. Virol. 79:5774-5785 (2005).
BMBL, A4V28553; AAR1244-1; -; mRNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0007155; P:cell adhesion; IEA.
InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36_antigen.
Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                              SQDKEAMQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                         Created)
                                                                                                                                                                                                                                                                                                                                                                                                                Scavenger receptor class B member 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINTS; PR01610; CD36ANTIGEN. PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                    05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                         QET8F1 TUPGB PRELIMINARY;
QET8F1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=37347;
                                                                                                                                                                                                                                                                                                                                                                                                                              Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Receptor.
                             241
                                                        241
                                                                                  301
                                                                                                           301
                                                                                                                                      361
                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUÊNCE
                                                                                                                                                                                                                                                                                                                                TUPGB
                                                                                                                                                                                                                                                                                                                 RESULT
                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                          ò
                                                     셤
                                                                                ò
                                                                                                       셤
                                                                                                                                      8
                                                                                                                                                             셤
                                                                                                                                                                                         ò
                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

ö

9

240

420 420

us-08-765-108-4.rup

셤 ò 요

원 ò

δ 셤 ŝ 셤 ò 셤 ò 셤 ઠે 셤 ò

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                               PQPDRSHGSESDYIILPNILVLGGAVWMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                241 SKVNFWHSDQCNMINGTSGQMWAPFWTPESSLEFYSPEACRSMKLIYQKPGVFGGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 FVAPKTLFANGSMYPPNEGFCPCLDSGIONVSTCRFGAPLFLSHPHFYNADPVLAEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGRARARRAAAGLGVVGLLCAVVGAVLIAAVPPLIRQMVLKNVRIDPNSLSFNMWKEIP
                                                                                                                                                                          61 APFYLSVYFFDVVNPNEILKGEKPQVRERGPYVYREFRHKKNITFNDNDTVSFLEHRSFQ
                                                                                                                                                                                                                                                                                                                          1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                      WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                            SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                      FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Rattus.
                                              Gaps
                                            ö
     Length 509;
                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=Sprague-Dawley;
Lopez D., Rubin D., McLean M.P.;
"Regulation of the Rat SR-B Isoforms.";
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               506 AA; 56342 MW; 6PDE625301320E2E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
                                            52;
                         Pred. No. 2.6e-165;
       83.1%; Score 2227; DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   506 AA
                                          48; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481 SODKEAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL, AY682847; AAT85567.1; -; mRNA.
GO: GO:00162020; C:membrane; IEA.
GO: GO:0004872; F:receptor activity;
GO: GO:0007155; P:cell adhesion; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scavenger receptor class B type 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36_antigen.
Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRINTS; PR01610; CD36ANTIGEN PRINTS; PR01609; CD36FAMILY.
                         80.4%;
                         Best Local Similarity 80.4:
Matches 409; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QEB417_RAT PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=Scarb2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Receptor.
SEQUENCE
                                                                                                                                                                                                                               121
       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q684177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT :
                                                                                                            g
                                                                                                                                                                                      셤
                                                                               ઠ
                                                                                                                                                     ઠે
                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                      <u>.a</u>
                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
     ö
                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                240
                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                         241 SKVDFWHSDQCNMINGTSGQMWPPFMTPBSSLEFYSPBACRSMKLMYKBSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                 61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                    121 FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                             FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                        NUCLECTIDE SEQUENCE.
PubMed=14595001; DOI=10.1194/jlr.M300353-JLR200;
Ritsch A., Tancevaki I., Schgoer W., Pfeifhofer C., Gander R.,
Eller P., Foeger B., Stanzl U., Patsch J.R.;
"Molecular characterization of rabbit scavenger receptor class B types
I and II: portal to central vein gradient of expression in the
                                                                                                                                                                                                                                                            WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTCVQNFSKIHLVDRWNGL
                                  1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                 181 WGYKDPLVNLINKYFPGMFPFKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                     SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AMGGEPINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Scavenger receptor class B type I.
Oryctolagus cuniculus (Rabbit) Craniata; Vertebrata; Buteleostomi;
Bukaryota; Metazoa; Chodata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Glires; Lagomorpha; Leporidae;
     ö
   48; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            509 AA; 57052 MW; 00DD47F1AF2DB4E0 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509 AA
 46; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            J. Lipid Res. 45:214-222(2004).
EMBL; AY283277; AAP40266.1; -; mRNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0007155; P:cell adhesion; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36_antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS; PRO1610; CD36ANTIGEN.
PRINTS; PR01609; CD36PAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QGWIW9_RABIT PRELIMINARY;
QGWIW9;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF01130; CD36; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oryctolagus.
NCBI_TaxID=9986;
 415;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Receptor.
SEQUENCE
                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RABIT
Matches
```

ω

```
481 SKDKEAIQAYSESLMTPAPKGTVLQEARL 509
                                                                                                                                                                                                                                                                                                                                                                                57514
                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 404; Conservative
                                                                                                                                                                                                               Glycoprotein, Receptor,
TOPO DOM 1 11
TRANSMEM 12 32
                                                                                                                                                                                                                                                  439
460
102
102
1108
1173
212
212
255
310
                                                                                                                                                                                                                                                                                                                                                                    383
509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                  255
310
330
                                                                                                                                                                                                                                                  33
4440
461
102
108
173
212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                  TOPO DOM
TRANSMEM
                                                                                                                                                                                                                                                                                   CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                         Š
O
                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                         removed.
                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                       ä
                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                        468
                                                                                                         VEYLSVYFFEVVNPSEVINGQKPVVRERGPYVIREFRQKVNITFNDNDTVPYIENRSIR 120
                                                                                                                                                        FQPDKSQGSESDYIVLPNILVLGGAVMMEDKPTSLKLLMTLGLVTMGQRAFMRRTVGEIL 180
                                                                                                                                                                                          240
                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                  480
                                                                                                                                          FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGORAFMNRTVGEIL 180
                                                                                            VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                              09
                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PUNCTION: Receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phospharidylserine and apoptotic cells. Probable receptor for HDL, located in particular region of the plasma membrane, called caveolae. Facilitates the flux of free and esterified cholesterol between the cell surface and estracellular donors and acceptors, such as HDL and to a lesser extracellular donors and acceptors, such as HDL and to a lesser extent, apo8-containing lipoproteins and modified lipoproteins. Probably involved in the phagocytosis of apoptotic cells, via its byosphatidylserine binding activity (By similarity).
SUBUNIT: The C-terminal region binds to PDZXI (By similarity).
SUBCELLULAR LOCATION: Integral membrane protein. Predominantly
                                                                                                                                                                                                                                                                                                    FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSQPHFYNADPVLSEAVLG
                                                                                                                                                                                          WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVONFSKIHLVDRWNGL
                                                                                                                                                                                                                                         SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                     FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                    LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                        361 LNPDPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                              121 MMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIIYQLRSQ------G
                                                           WGYEDPFVNFLSKYFPGMFPIKGKFGLFVGMNDSSSGVFTVFTGVONFSKIHLVDKWNGL
                                                                                                                                                                                                                                                     AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG
                                              1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kim J.G., Vallet J.L., Christenson R.K.; "Characterization of porcine high density lipoprotein (HDL) receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Laurasiatheria, Cetartiodactyla, Suina, Suidae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-ÖCT-2003 (Rel. 42, Created)
110-OCT-2003 (Rel. 42, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-B1) (High density
                       15;
 DB 2; Length 506;
                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases
                        35;
82.6%; Score 2215.5; DB 2 83.0%; Pred. No. 2.1e-164;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ä.
                      35; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              509
                                                                                                                                                                                                                                                                                                                                                                                                                                           PEDITSPPNLIAWSDQPPSP 488
                                                                                                                                                                                                                                                                                                                                                                                                                               SQDKEA---IQAYSESLMSP 497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lipoprotein receptor SR-BI)
           Best Local Similarity 83.0
Matches 415, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      [1]NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sus scrofa (Pig)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SCRB1 PIG
QBSQC1;
                                                                                             61
                                                                                                                   61
                                                                                                                                          121
                                                                                                                                                                  121
                                                                                                                                                                                         181
                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                     469
 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SR-BI."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ++
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SCRB1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                엄
                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                              ò
                                                                                            ઠે
                                                                                                              g
                                                                                                                                         ð
                                                                                                                                                              요
                                                                                                                                                                                       ò
                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

```
This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FQPDRSHGSESDYIILPNILVLGGAVWMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae (By similarity).

PTM: N-glycosylated (By similarity).

SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 VPFYLSVYFFDVINPNEILQGQKPQVRERGPYVYREFRHKSNITFNDNDTVSFLEYRSYQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 SKVNFWHSDQCNMINGTSGQMWAPFMTPESSLEFYSPEACRSMKLIYKEQGVFEGIPTFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FVAPNTLFANGSVYPPNEGFCPCMESGIQNVSTCRFNAPLFLSHPHFYNADPVLAEAVSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AMCGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WGYEDPFVNFINKYLPDMPPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Potential).
(Potential).
(Potential).
(Potential).
(Potential).
(Potential).
(Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   51; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cycoplasmic (Potential).
N-linked (GLGNAC. .) (Pot.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cytoplasmic (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Score 2215; DB 1;
; Pred. No. 2.3e-164;
54; Mismatches 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                          Transmembrane.
                                                                                                                                                                                                                                                               EMBL; AF467889; AAL75567.1; -; mRNA.
INIGETPO; IPR002129; CD36.
INIGETPO; IPR005428; CD36.
PANTHER; PTHR11923; CD36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MM.
                                                                                                                                                                                                                                                                                                                                                             Pfam, PF01130, CD36, 1.
PRINTS; PR01610, CD36ANTIGEN.
PRINTS; PR01609, CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         82.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               79.48;
```

```
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SCRB1
                                                                                                                                                                                      셤
                                                         용
                                                                                          à
                                                                                                                                                        ò
                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                           Mol. Cell. Endocrinol. 134:59-67(1997).

-1- FUNCTION: Receptor for different ligands such as phospholipids, cholesterol ester. lipoproteins, phosphatidylserine and apoptotic cells. Probable receptor for HDL. located in particular region of the plasma membrane, called caveolae. Pacilitates the flux of free and extracellular donors and evenen the cell surface and extracellular donors and ecceptors, such as HDL and to a lesser extent, apoB-containing lipoproteins and modified lipoproteins. Probably involved in the phaspcytosis of apoptotic cells, via its phosphatidylserine binding activity (By similarity).

---- SUBCELLULAR LOCATION: Integral membrane protein. Predominantly localized to cholesterol and sphingomyelin-enriched domains within the PDMs: N-glycosylated (By similarity).

---- SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the Buropean Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the Buropean Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                  TISSUE-Corpus luteum, MEDLINE=9806865; PubMed=9406850; DOI=10.1016/S0303-7207(97)00173-1; Rajapaksha W.R.A.K.J.S., McBride M., Robertson L., O'Shaughnessy P.J.; "Sequence of the bovine HDL-receptor (SR-BI) cDNA and changes in
                                                                                                                                                                                                                                                                                             receptor mRNA expression during granulosa cell luteinization in vivo
                                                                                                                      Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (Potential). (Potential). (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Potential). (Potential). (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    80.5%; Score 2158; DB 1; Length 509; 76.6%; Pred. No. 6.5e-160; ive 63; Mismatches 56; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytoplasmic (Potential).
Potential.
Extracellular (Potential).
Extracellular (Potential).
Cytoplasmic (Potential).
N-linked (GLONAC...) (Potential).
N-linked (GLONAC...) (Potential).
N-linked (GLONAC...) (Potential).
N-linked (GLONAC...) (Potential).
N-linked (GLONAC...) (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B3B7FD368C22C12F CRC64;
                                                       10-0CT-2003 (Rel. 42, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-BI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GlcNAc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GlcNAc
              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Transmembrane,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; AF019384; AAB70920.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36_antigen.
PANTHER; PTHR1923; CD36; 1.
PRIM: FP01130; CD36; 1.
PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FANTLY.
                                          10-OCT-2003 (Rel. 42, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        57610 MW;
                                                                                                                                                                     Pecora; Bovidae; Bovinae; Bos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 76.6'
Matches 390; Conservative
              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Glycoprotein, Receptor,
TOPO DOM 1
TRANSMEM 12 32
                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      330
383
509 AA;
                                                                                                                                                                                    NCBI_TaxID=9913;
                                                                                                         Name=SCARB1;
           SCRB1 BOVIN
018824;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPO DOM
TRANSMEM
TOPO DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBÖHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      removed.
BOVIN
```

ö

Gape

. 0

```
61 VPFYLSVYFPNIVNPEGIIQGQKPQVQEHGPYVYREFRHKSNITFNNNDTVSFLEYRSYQ 120
                                                                                                                                                                                                FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                    61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
FVAPSTLFANGSVYPPNEGFCPCRESGIQNVSTCRFNAPLFLSHPHFYNADPVLAEAVSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361 LHPNPKEHSLFLDIHPVTGIPMNCSVKIQLSLFVKSVKGIGQTGNIQPVVLPLMWFEESG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Buarchontoglires, Primates, Catarrhini, Hominidae,
                                                                                                                                                                        121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                              WGYEDPFVNPINKYLPDMPPIKGKFGLFVEMNNSDSGLPTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCRB1 HUMAN STANDARD, PRT, 552 AA.

GRWTVO, Q14016; Q6KFX4;

10-OCT-2003 (Rel. 42, Last sequence update)

13-SEP-2005 (Rel. 48, Last annotation update)

Scavenger receptor class B member 1 (SRB1) (SR-B1) (CD36 antigen-like

1) (CD36 and LIMPII analogous 1) (CLA-1) (Collagen type I receptor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and distribution of CLA-1, a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE=Prostate, and Rhabdomyosarcoma; MBDIJNB=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899; Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shemmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORMS 1 AND 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hirano K.-I., Yamashita S., Matsuzawa Y., Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Calvo D., Vega M.;
"Identification, primary structure and dimember of the CD36/IMPII gene family.";
J. Biol. Chem. 268:18929-18935(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUCLECTIDE SEQUENCE (ISOFORMS 1 AND 2).
TISSUE=Promyelocyte;
MEDLINE=9336601; PubMed=7689561;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               thrombospondin receptor-like 1).
Name=SCARB1; Synonyms=CD36L1, CLA1;
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE (ISOFORM 4)
```

```
PubMed=12966036; DOI=10.1093/hmg/ddg314;

RX Morabia A., Cavania B., Costanza M.C., Ross B.M., Flaherty M.S.,
Alvin G.B., Das K., Gilliam T.C.; Ross B.M., Flaherty M.S.,
Alvin G.B., Das K., Gilliam T.C.; Ross B.M., Flaherty M.S.,
RT "Association of extreme blood light profile phenotypic variation with
I reverse cholesterol transport genes and 10 non-genetic
cardiovascular disease risk factors.";
RT I reverse Cholesterol transport genes and 10 non-genetic
cardiovascular disease risk factors.";
Rum. Mol. Genet. 12:273-2743(2003).
-!- FUNCTION: Receptor for different ligands such as phospholipids,
cholesterol ester, ilpoproteins.;
Cells. Probable receptor for HDL, located in particular region of
the plasma membrane, called caveolae. Facilitates the flux of free
and esterified cholesterol between the cell surface and
extracellular donors and acceptors, such as HDL and to a lesser
cettent, apoB-containing lipoproteins and modified lipoproteins.
C Probably involved in the phasocytosis of apoptotic cells, via its
phosphatidylserine binding activity. Receptor for hepatitis C
virus glycoprotein E2. Binding between SCARB1 and E2 was found to
be independent of the genotype of the viral isolate.

--- SUBUNIT: Plays a critical role in HCV attachment and/or cell entry
by interacting with HCV E1/E2 glycoproteins heterodimer. The C-
terminal region binds to PDZK1 (By similarity).
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Biatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Toophiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Murny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Radrealey R.W., Touchman J.W., Green B.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=22407477; PubMed=12519372;
DOI=10.1034/j.1399-004.2003.630108.x;
Tai E.S., Adiconis X., Carmena R.;
Corella D., Ascaso J., Carmena R.;
"Polyworphisms at the SRBI locus are associated with lipoprotein levels in subjects with heterozygous familial hypercholesterolemia.";
Clin. Genet. 63:53-58(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interaction with HCV E1/E2 ENVELOPE HETERODIMER.
MEDIATE.22928135; PubMed=1291301; DOI=10.1074/jbc.M305289200;
MEDIATE.22928135; PubMed=1291301; DOI=10.1074/jbc.M305289200;
Bartcosch B., Vitelli A., Granier C., Goujon C., Dubuisson J.,
Pascale S., Scarselli E., Cortese R., Nicosia A., Cosset F.-L.;
"Cell entry of hepatitis C virus requires a set of co-receptors that include the CD81 tetraspain and the SR-B1 scavenger receptor.";
J. Biol. Chem. 278:41624-41630(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=22128898; PubMed=12016218; DOI=10.1074/jbc.M202879200; Kawasaki Y., Nakagawa A., Nagaosa K., Shiratsuchi A., Nakanishi Y.; Phosophatidylserine binding of class B scavenger receptor type I, a phagocytosis receptor of testicular Sertoli cells."; J. Biol. Chem. 277:27559-2756(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=22244044; PubMed=12356718; DOI=10.1093/emboj/cdf529; Scarselli E., Ansuini H., Cerino R., Roccasecca R.M., Acali S., Filocamo G., Traboni C., Nicosia A., Cortese R., Vitelli A.; The human scavenger receptor class B type I is a novel candidate receptor for the hepatitis C virus."; EMBO J. 21:5017-5025(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 roc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and mouse cDNA sequences."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GLYCOSYLATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FUNCTION
```

```
This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                  use as long as its content is in no way modified and this statement is not
         SUBCELLULAR LOCATION: Integral membrane protein. Predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLCRSGSGHCWGLRSTLASFACRVATTLPVLEGLGPSLGGG
TGS -> EKCYLFWSSSKKGSKDKEAIQAYSESLMTSAPKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQQVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VGAGORAARĀDSHSLACWGKGASDRTLWPTAAWSPPPAAVL
                                                                                                                                                            Name=2; Synonyms=SR-BII;
Isold=QBWTVO-3; Sequence=VSP_008553; VSP_008554;
Name=4; Synonyms=SR-BIII:
Isold=QBWTVO-4; Sequence=VSP_011037, VSP_008554;
-!- TSSUB SPRECIFICITY: Widely expressed.
-!- PTM: N-glycosylated.
-!- PTM: N-glycosylated.
-!- POLYMORPHISM: The Ser-2 variant is associated with higher plasma triglycentide concentration in subjects with heterozygous familial hypercholesterolemia.
-!- SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Potential). (Potential). (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alternative splicing; Glycoprotein; Polymorphism; Receptor;
                                                                                                         Note=May be due to a competing donor splice site. No experimental confirmation available;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -> MALQPSW (in isoform 4).
P55345:HRMT1L1; NbExp=1; IntAct=EBI-78657, EBI-78458;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cytoplasmic (Potential)
Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GlcNAc. ..)
(GlcNAc. ..)
(GlcNAc. ..)
(GlcNAc. ..)
(GlcNAc. ..)
(GlcNAc. ..)
(GlcNAc. ..)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (in isoform 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytoplasmic (Potential)
                                                                  Event=Alternative splicing; Named isoforms=4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MIM; 601040; -. Cplasma membrane; TAS. GO; GO:0005886; F:receptor activity; TAS. GO; GO:0004872; F:receptor activity; TAS. GO; GO:0005215; F:reansporter activity; TAS. GO; GO:0006810; P:transport; TAS. GO; GO:0006810; P:transport; TAS. InterPro; IPR002159; CD36. InterPro; IPR002159; CD36. InterPro; IPR005428; CD36, antigen. PANTHER; PTHR11923; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GlcNAc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GlcNAc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  011037
                                                                                                                                                                                                                                                                                                                                                                                             EMBL; Z22555; CAA80277.1; -; mRNA.
EMBL; AFSIS445; AAQ08188.1; -; mRNA.
EMBL; BC022087; -; NOT ANNOTATED CDS; mRNA.
EMBL; BC080647; AAH80647.1; -; mRNA.
                                                                                                                                   Name=1; Synonyms=SR-B1;
IsoId=Q8WTV0-2; Sequence=VSP_008554;
                                                                                             IsoId=Q8WTV0-1; Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              IntAct; Q8WTV0; -.
Ensembl; ENSG0000073060; Homo sapiens.
HGNC; HGNC:1664; SCARB1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-linked
N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-linked
N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam, PF01130; CD36; 1.
PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                    ALTERNATIVE PRODUCTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11
32
444
464
102
102
173
212
227
227
310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        552
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PIR; S36656; A48528.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPO DOM CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPO DOM
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VARSPLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VARSPLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                      removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ropo_dow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VARSPLIC
               +
                                                       -
```

```
NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oryctolagus.
NCBI_TaxID=9986;
        TISSUE=Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oryctolagus
                                                                                                                                     Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RABIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
      STWREAMS
                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 IPFYLSVYFFDVWNPSEILKGEKPQVRERGPYVYREFRHKSNITFNNNDTVSFLEYRTFQ-120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             POPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLAMMTLGLATLGORAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 POPSKSHGSESDYIVMPNILVLGAAVMMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIM 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKIMYKESGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |:|:
LHPNQEAHSLFLDIHPVTGIPMNCSVKLQLSLYMKSVAGIGQTGKIEPVVLPLLMFAESG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Euarchontoglires, Primates, Catarrhini, Hominidae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
      (in isoform 1, isoform 2 and
                                                                                                                                                                                                                                                                                                                                                                                                              6
                                                                                                                                                                                                                                                                                                                                                                 77.1%; Score 2066.5; DB 1; Length 552; 76.5%; Pred. No. 1e-152;
                                                                                                                                            G -> S. // FTId=VAR 017100.
S -> G (in dbSNP:10396213).
C -> R (in dbSNP:2293440).
C -> R (in dbSNP:2293440).
FTId=VAR 017101.
F -> L (in Ref. 2).
F -> S (in Ref. 2).
                                                                                                                                                                                                                                                                                                                                                                                      ; Pred. No. 1e-152;
49; Mismatches 60; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-MAY-2005 (TrEMBLrel. 30, Created)
10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
Scavenger receptor class B member 1 variant (Fragment)
Homo sapiens (Human)
                                        /FTId=VSP 008554.
5 -> S (in dbSNP:4238001)
/FTId=VAR_017098.
                                                                                                                                                                                                                                                                                                                         06B0BD771FEA284F CRC64;
                                                                                                          V -> I.
/FTId=VAR_017099.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       581 AA
                          4
    SVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RADSHSLACWGKGASDRTLWPTA 498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481 SQDKEAIQAY----SESLMSPAA 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                         60878 MW;
                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 76.5$
Matches 385; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           t 14
14 Human
Q59fm4_Human preliminary;
                                                                                                                                                  167
                                                                                                                                                                                             229
                                                                                                                                                                                                                                       511
                                                                                                                                                                                                                                                                               70
                                                                                                                                                                                                                                                                             70 .
97
552 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI TaxID=9606;
                                                              N
                                                                                                        135
                                                                                                                                                  167
                                                                                                                                                                                             229
                                                                                                                                                                                                                                                                           CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                              VARIANT
                                                                                                                                                                                                                                   /ARIANT
                                                                                                        VARIANT
                                                                                                                                                  /ARIANT
                                                                                                                                                                                           VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         059FM4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 1 0059FM4 F 0059FM4 F 0059FM4 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005 F 005
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठ
```

```
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                     61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                              POPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGORAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |:|:
LHPNQEAHSLFLDIHPVTGIPMNCSVKLQLSLYMKSVAGIGQTGKIEPVVLPLLMFAESG 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP. 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PubMed=14595001; DOI=10.1194/jlr.M300353-JLR200;
Ritsch A., Tancevski I., Schgoer W., Pfeifhofer C., Gander R.,
Eller P., Foeger B., Stanzl U., Patsch J.R.;
"Molecular characterization of rabbit scavenger receptor class B types
I and II: portal to central vein gradient of expression in the
                                                                                                                                                                                                                                                                                                           29 MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                209 WGYKDPLVNLINKYFPGMFPFKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LNPDPREHSLFLDIHPVTGI PMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryotă; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Euarchontoglires; Glires; Lagomorpha; Leporidae;
        S.
Totoki Y., Toyoda A., Takeda T., Sakaki Y., Tanaka A., Yokoyama Ohara O., Nagase T., Kikuno F.R.;
"None Title.";
                                                                                                                                                                                                                                          6
                                                                                                                                                                                                581;
                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                          Indels
                                                                Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases EMBL; AB209436; BAD92673.1; -; mRNA.
                                                                                                                                                     581 AA; 64186 MW; 795810C1C2PA75A3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , Created)
, Last sequence update)
, Last annotation update)
type II.
                                                                                                                                                                                                DB 2;
                                                                                                                                                                                                                                          603
                                                                                                                                                                                              77.1%; Score 2066.5; DB 2
76.5%; Pred. No. 1.1e-152;
ive 49; Mismatches 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       501 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481 SQDKEAIQAY----SESLMSPAA 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | :: : | : 504 RADSHSLACWGKGASDRTLWPTA 526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  J. Lipid Res. 45:214-222(2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cuniculus (Rabbit)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q6WIW8;
05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Scavenger receptor class B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QEWIWS RABIT PRELIMINARY;
                                                                                                                                                                                                                                        Matches 385; Conservative
```

```
ö
                                                                                                                                                                                                                                                                                                                                                           301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                       FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                  09
                                                                                                                                                                                                                      1 MGGRARARRAAAGLGVVGLLCAVVGAVLIAAVPPLIRQMVLKNVRIDPNSLSFNMWKEIP
                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQ 467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 76.4%; Score 2049; DB 2; Length 501; Best Local Similarity 80.3%; Pred. No. 2.1e-151; Matches 375; Conservative 44; Mismatches 48; Indels
                                                                                                                              501 AA; 55675 MW; 9A839B31C49F4C71 CRC64;
EMBL; AY283278; AAP40267.1; -; mRNA.
GO; GO:0004602; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0007155; P:cell adhesion; IEA.
InterPro; IPR002159; CD36.
InterPro; IPR005159; CD36.
Pfam; PF01130; CD36; 1.
PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36ANTIGEN.
                                                                                                                   Receptor.
                                                                                                                                                                                                                                                                                                         121
                                                                                                                              SEQUENCE
   g
                                                                                                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                        ò
                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                      ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
```

Search completed: February 23, 2006, 12:45:05 Job time : 150.5 secs

4950,

Sequence:

Run on:

Database

```
JOSEPS-25-00-2.

JOSEPS-25-00-2.

Sequence 2, Application US/08559505

Patent No. 592333

GENERAL INFORMATION:

APPLICANT: Monby Krieger, Susan L. Acton, Attilio Rigotti, Helen H. APPLICANT: Hobbs and Kathy Landshulz

TITLE OF INVENTION: METHODS FOR MODULATION OF LIPID UPTAKE

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSER: Patrea L. Pabet

STREET: 2000 One Atlantic Center

STREET: 2010 West Peachtree Street

CITY: Atlanta

STATE: Georgia

CONTRX: USA

CONTRX: USA

STATE: Georgia

CONTRX: IS PC Compatible

COMPTRE: IB PC Compatible

COMPUTER: READABLE FORM:

MEDIUM TYPE: Ploppy disk

COMPUTER: PADORY

MEDIUM TYPE: Ploppy disk

COMPUTER: BW PC Compatible

COMPUTER: PADORY

MEDIUM TYPE: Ploppy disk

COMPUTER: PADORY

MEDIUM TYPE: PLOPS/MS-DOS

SOFTWARE: PATENTION DATA:

APPLICATION NUMBER: 31,284

REFERENCE/DOCKET NUMBER: 31,284

REPERRENCE/DOCKET NUMBER: 31,284
                                                                                                         Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
Sequence
Sequence
                            Sequence
Sequence
Sequence
  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FRATURE:
NAME/KEY: misc_feature
LOCATION: 1..509
OTHER INFORMATION: /function= "Amino acid sequence for the
OTHER INFORMATION: Hamster Scavenger Receptor Class B-I."
PBATURE:
NAME/KEY: Domain
LOCATION: 9..32
OTHER INFORMATION: /note= "Putative transmembrane domain."
                      US-09-270-767-43768

US-09-270-767-46306

US-09-270-767-61875

US-09-270-767-51875

US-09-270-767-51875

US-09-270-767-3112

US-09-270-767-48312

US-09-513-999C-6528

US-09-513-999C-6528

US-09-570-767-44571

US-09-161-939A-4

US-09-161-939A-19

US-09-161-939A-19

US-09-161-939A-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -09-107-532A-6012
                                                                                                                                                                                                                                                                                                                                                                                                                                     -09-638-937-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : 509 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
JS-08-559-505-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                                                                                                                                                 110.5
1110.5
1110.5
1103.5
99.5
98.5
98.5
93.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 44, Appl
Sequence 11488, A
                                                                                                                                                                              February 23, 2006, 12:45:24; Search time 34 Seconds (without alignments) 1237.704 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                           US-08-765-108-4
2681
1 MGGSARARWVAVGLGVVGLL......YSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 4, Sequence 4, Sequence 2, Sequence 2, Sequence 4, Sequence 4, Sequence 4, Sequence 8, Sequence 2, Sequen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence Sequence Sequence
                      GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-161-939A-44
US-09-949-016-11488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-054-272-59
US-09-949-016-8167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-559-505-4
US-08-749-907-4
US-09-241-581B-8
US-09-385-799-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCT-US95-07721-8
US-08-890-980-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -09-270-542-88
-09-270-542-86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             581B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        572060 segs, 82675679 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                              OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                     BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minimum DB seq length: 0
Maximum DB seq length: .200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1000.0
1000.0
1000.0
1000.0
1000.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    83.7
                                                                                                                                                                                                                                                                                           Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2236
1522
751.5
699
696
673
673
572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2244
2244
```

```
/note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-3 potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
NAME/KEY: Modified-site
LOCATION: 21.470
CHER INFORMATION: /note= "The cysteines at positions 21,
OTHER INFORMATION: 251, 280, 321, 323, 334, 384 and 470 represent potential disulusing Cherk Information: 1 inkages."
US-08-749-907-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /function= "Amino acid sequence for the Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: 440..464
OTHER INFORMATION: /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: Domain
LOCATION: 9..32
OTHER INFORMATION: /note= "Putative transmembrane domain."
FEATURE:
NAME/KEY: Domain
LOCATION: 440..464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 2681; DB 1; 100.0%; Pred. No. 1.6e-285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                    FILING DATE:
CLASSIFICATION: 435
ATTORREY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MITTE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEPAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENOTH: 509 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECHER PAPE: ANGLEDICE ANGLEDICE
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
NAME/KEY: Modified-site
LOCATION: 1..385
OTHER INFORMATION: /note=
OTHER INFORMATION: /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc feature
LOCATION: 1..509
OTHER INFORMATION: /fur
OTHER INFORMATION: Hams
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                   /note= "Positions 102-104, 108-110, 173-175,
212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 repre
N-linked glycosylation sites."
                                                                                                                                                                                                                                                                         /note= "The cysteines at positions 21, 251,
280, 321, 323, 334, 384 and 470 represent potential disulfide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121 FQPDRSHGSESDYIILPNILVLGGAVMESKSAGLKLMMTLGLATLGGRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFBGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPV1YQLRSQBKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MGYEDPFVNF1NKYLPDMFP1KGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2, Application US/08749907

Patent No. 5962322

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
STREET: ALland Atlanta
STREET: USU West Peachtree Street
CITY: Atlanta
STATE: Georgia

COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                               ö
NAME/KEY: Domain
LOCATION: 440..464
OTHER INFORMATION: /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                                                                                                                  Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                Query Match 100.0%; Score 2681; DB 1; Best Local Similarity 100.0%; Pred. No. 1.6e-285; Matches 509; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SODKEAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SODKEAIQAYSESEMSPAAKGTVLOEAKL 509
                                                                                    NAME/KEY: Modified-site
LOCATION: 1.385
OTHER INFORMATION: /note=
OTHER INFORMATION: 212-21
OTHER INFORMATION: N-link
FEATURE: Modified-site
LOCATION: 21.470
OTHER INFORMATION: /note=
OTHER INFORMATION: 280, 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-749-907-2
                                                                                                                                                                                                                                                                                                                   US-08-559-505-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPRACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                    FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                            INPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                      AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                    121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                  SKVNYWHSEQCHMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                        FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                   181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application US/08890979
Patent No. 6030778
GENERAL INFORMATION:
APPLICANT: Acton, Susan L.
APPLICANT: Ordovas, Jose M.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR TITLE OF INVENTION: DISORDERS
NUMBER OF SEQUENCES: 75
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELIOT LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/890,979
FILING DATE: 10-JUL-1997
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; DB 2;
1.6e-285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 2681; 100.0%; Pred. No. 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: FOLEY, HOAG & ELIOT LLP
One Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RECISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: M
TELECOMOUNICATION INFORMATION
TELEPHONE: 617-832-1000
TELEFAX: 617-832-7000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 02109-2170
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            509 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.0
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-890-979-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET:
                                                                                                                                                                                                                                                                                                              361
                                                                                                                                  241
                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                      셤
                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                          360
                                                                                                                                                                            FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                    LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                             AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                    421 AMGGEPINTFYTQLVLMPQVLQYVQYVLIGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VPPYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                               301 FTAPKTLFANGSVYPPNEGPCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLAMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ,
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Acton, Susan L.
TITLE OF INVENTION: SR-B1 NUCLBIC ACIDS AND USES THEREFOR NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSE: FOLKY, HOAG & ELIOT LLP
STREET: One Post Office Square
CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 2681; DB 1;
Pred. No. 1.6e-285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                   SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                            SODKEAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: MIA-005.01
FELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              UPEACE SOFTMARE: PATENTAL. CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/890,980
FILING DATE: 10-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : Floppy disk
IBM PC compatible
YSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4, Application US/08890980
Patent No. 5998141
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        35,430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Arnold, Beth B. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02109-2170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JS-08-890-980-4
                                                            301
                                                                                                                                                    361
                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                   481
                                                                                                    셤
                                                                                                                                                  ò
                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                  쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      음
```

us-08-765-108-4.rai

ઠે

8

ò 셤 ઠે ò 셤 8 ઠે 8 ò ઠે

Š

```
240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                       240
                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                        LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLMFEQSG 420
                                                                                                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                                                        421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLIGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                        301 FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AMGGEPINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                              FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                  LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BODY MASS AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4, Application US/09031626
| Patent No. 6228581
| GENERAL INFORMATION:
| APPLICANT: Acton, Susan L.
| APPLICANT: Ordovas, Jose M.
| TITLE OF INVENTION: DAGNOSTIC ASSAYS AND KITS FOR BOD;
| TITLE OF INVENTION: DAGNOSTIC ASSAYS AND KITS FOR BOD;
| TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
| TITLE OF INVENTION: DAGNOSTIC ASSAYS AND KITS FOR BOD;
| TITLE OF INVENTION: DAGNOSTIC ASSAYS AND KITS FOR BOD;
| TITLE OF INVENTION: DAGNOSTIC ASSAYS AND KITS FOR BOD;
| TILLE REFERENCE: MIA-005.04
| CURRENT PILLING DATE: 1998-0.2-7
| EARLIER FILING DATE: 1997-07-10
| NUMBER OF SEQ ID NOS: 121
| SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 2681; DB 2;
100.0%; Pred. No. 1.6e-285;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                       481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 100.
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 4
LENGTH: 509
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 6
US-09-031-626-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-031-626-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                       241
                         181
                                                                241
                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                  301
                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                          8
                                                                                                 셤
                                                                                                                                                ઠે
                                                                                                                                                                            g
                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 FQPDRSHGSESDYIILPNILVIGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                          241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLBFFSPBACRSWKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                    FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                          FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                120
                                                                                                   61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                         9
                                                                                                                                                                                                                                                      181 WGYEDPFUNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MGGSARARWVAVGLGVVGLLCAVLGVVM1LVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 4, Application US/09032894
; Batent No. 6130041
; GENERAL INDOFMATION:
    APPLICANT: Acton, Susan L.
    TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USES THEREFOR
    TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USES THEREFOR
    TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USES THEREFOR
    TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USES THEREFOR
    TITLE OF INVENTION NUMBER: US/09/032,894
    CURRENT FILING DATE: 1998-02-27
    EARLIER APPLICATION NUMBER: 08/890,980
    NUMBER OF SEQ ID NOS: 121
    SOFTWARE: PATENTIN VOS: 121
    SEQ ID NOS: 121
    SEQ ID NOS: 122
    SEQ ID NOS: 122
    SEQ ID NOS: 122
    SEQ ID NOS: 122
    SEQ ID NOS: 123
    SEQ ID NOS: 124
    SEQ ID NOS: 125
    SEQ ID NOS: 125
    SEQ ID NOS: 126
    SEQ ID NOS: 127
    SEQ ID NOS: 127
    SEQ ID NOS: 127
    SEQ ID NOS: 127
    SEQ ID NOS: 128
    SEQ ID NOS: 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 2681; DB 2;
Pred. No. 1.6e-285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 SQDKEAIQAYSESLMSPAAKGTVLQEAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 100.0
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : LENGTH: 509
; TYPE: PRT
; ORGANISM: Human
US-09-032-894-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-032-894-4
                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                61
                                                                                                                                                121
                                                                                                   g
                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8ે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

셤 8 셤 δ

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301 PTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361 INPDPREHSLFLDIHPVTGIPMNCSVKLOISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421 AMGGEPLNTFYTOLVLMPQVLQYVQYVLLGLGGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPPYLSVYFPEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                              1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 AMGGEPINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                    /note= "The cysteines at positions
                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                Length 509;
                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Krieger, Monty
TITLE OF INVENTION: Class BI Scavenger Receptors
UNDER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
                                                                                                                                                                                                                                                                                                                           100.0%; Score 2681; DB 2;
100.0%; Pred. No. 1.6e-285;
iive 0; Mismatches 0;
173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent potential N-linked glycosylation sites.
                                                                                                                                                                            21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3: Patrea L. Pabst
1100 Peachtree Street, Suite 2800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                             linkages."
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                NAME/KEY: Modified-site
LOCATION: 21..470
OTHER INFORMATION: /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 4, Application US/08265428 Patent No. 6429289
                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 100.0
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 30309-4530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: 1100 Pe
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
                                                                           FEATURE
                                                                                                                                                                                                                                                                               US-09-241-581B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-265-428-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                             480
                                                 361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEGSG 420
                                                                                                                                                         421 AMGGEPLATFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQBKCFLFWSGSKKG 480
                       LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                        AMGGEPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Amino acid sequence for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: 1..385
OTHER INFORMATION: /note= "Positions 102-104, 108-110,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Massachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCES. ADDRESS: ADDRESSE: Patrea L. Pabst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: 9..32
OTHER INFORMATION: /note= "Putative transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "Putative transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hamster Scavenger Receptor Class B-I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/241,581B
FILING DATE: 02-Feb-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 2800 One Atlantic Center 1201 West Peachtree Street
                                                                                                                                                                                                                           481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                       SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: MIT6620 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /function=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/09241581B Patent No. 6350859 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc feature
LOCATION: 1..509
OTHER INFORMATION: /fur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERES.
LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Pabst, Patrea L. REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: protein HYPOTHERICAL: NO FRAGMENT TYPE: internal FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: Domain
LOCATION: 440.464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE
                                                                                                                        121
                                                                                                                                                                                                                                                                          481
                          361
```

240

Gaps

```
301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                   361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLMFEGSG 420
                                                                                                                                                                                                                                                                AMGGEPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /function= "Amino acid sequence for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "Putative transmembrane domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/09385799
Patent No. 6962688
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IEM PC compatible
COMPUTER: IEM PC compatible
SOBTWARE: BATCATION SYSTEM: PC-DOS/MS-DOS
SOSTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,799
FILING DATE: 30-Aug-1999
CLASSIFTCATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE: 15-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
TELECOMMUNICATION NUMBER: 31,284
TELECOMMUNICATION NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                          481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                            SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 1..509
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: 9..32
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Atlanta
STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-385-799-2
                                                                                                  361
                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 9
                                                                                                  ò
                                                                                                                                                          g
                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                  PILING DATE:
CLASSIFICATION: 530
ATVORVEY/AGENT INFORMATION:
NAME: Pabet, Patrea L.
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION NUMBER: 31,284
REGISTRATION FOR SEQ 10 0: 4: 555
INFORMATION FOR SEQ 1D NO: 4: 550
REGISTRATION FOR SEQ 1D NO: 4: 550
REGISTRATION REGISTRATION: /function= "Amino acid sequence for the Hamster Scavenger POWNER: NORWATION: /function= "Amino acid sequence for the Hamster Scavenger POWNER: NORWATION: /function= "Amino acid sequence for the Hamster Scavenger POWNER: NORWATION: /function= "Amino acid sequence for the Hamster Scavenger POWNER: NORWATION: /function= "Amino acid sequence for the Hamster Scavenger POWNER: NORWATION: /function= "Amino acid sequence for the Hamster Reavence For the Ha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257,310-312, 330-332 and 383-385 represent potential N-linked glycosylatid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKTMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "The cysteines at positions
21, 251, 280, 321, 323, 334, 384 and 470 represent
potential disulfide linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "Putative transmembrane
domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "Putative transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 2681; DB 2; Best Local Similarity 100.0%; Pred. No. 1.6e-285; Matches 509; Conservative 0; Mismatches 0;
      SOFTWARE: PatentIn Release #1.0, Version #1.25
                                    CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/265,428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: 440..464
OTHER INFORMATION: /note= "E
OTHER INFORMATION: domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: Modified-site LOCATION: 1..385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: 7; OTHER INFORMATION: 7; OTHER INFORMATION: 2; OTHER INFORMATION: px US-08-265-428-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 1..385
OTHER INFORMATION: /
OTHER INFORMATION: 1
OTHER INFORMATION: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Domain
LOCATION: 9.32
OTHER INFORMATION:
OTHER INFORMATION:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
```

```
domain."
                                                                                                                                                                                                                                                                                    : 509 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                          feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 100.
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                   internal
                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc_feat
LOCATION: 1..509
OTHER INFORMATION:
OTHER INFORMATION:
PEATURE:
NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: 440..464
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION:
                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Domain
                                                                          FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                 RAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCT-US95-07721-4
                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ୍ୟ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                         OTHER INFORMATION: /note= "Positions 102-104, 108-110,
173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent
potential N-linked glycosylation sites."
                                                                                                                             LOCATION: 21..470
OTHER INFORMATION: /note= "The cysteines at positions 21,
251, 280, 321, 323, 334, 384 and 470 represent potential disulfide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 SKVNYWHSEQCNMINGTSGQWWAPFWTPQSSLEFFSPEACKSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                         VPPYLSVYPPEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGGRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 AMGGEPLNTFYTQLVLAMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                     1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                   Length 509;
                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                 Score 2681; DB 2;
Pred. No. 1.6e-285;
                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                        linkages."
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 4, Application PC/TUS9507721
GENERAL INFORMATION:
APPLICANT: Massachusetts Institute of TITLE OF INVENTION: Class BI and CI SC;
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
Modified-site
                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                      .
0
                                                                                                                                                                                                                                                                 100.0%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IBM PC compatible
                   LOCATION: 1..385
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: IBM PC com
                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 509; Conserv
                                                                                                             NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Atlanta
                                                                                            FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CT-US95-07721-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                          US-09-385-799-2
                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                      8
```

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FQPDRSHGSESDY11LPN1LVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGE1L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKOOVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /function= "Amino acid sequence for the Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257, 310-312, 310-312, 330-332 and 383-385 represent potential N-linked glycosylation sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 9..32
OTHER INFORMATION: /note= "Putative transmembrane
OTHER INFORMATION: domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "Putative transmembrane
Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 2681; DB 4; 100.0%; Pred. No. 1.6e-285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEPAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
SOFTWARE: Patentin Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07721
```

```
301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 INPPREHSLFLDIHPVTGIPMNCSVKWQLSLYIKSVKGIGQTGKIEPVVLPLLMFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                           FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                        LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421 AMGGEPLNTFYTQLVLMPQVLQYVQLVGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                          VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                         FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                       SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 4, Application US/08749907

Patent No. 5962320

Patent No. 5962320

GENERAL INFORMATION:

APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVERTION: METHODS FOR MODULATION OF CHOLESTEROL NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory STREET: 2800 One Atlantic Center STREET: 1201 West Peachtree Street CITY: Atlanta STATE: Georgia COWTRY: USA ZIP: 30309-3450 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk MODIUM TYPE: Floppy disk MODIUM TYPE: Floppy disk MODIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabet, Patrea L.
REGISTRATION NUMBER: 31,284
REFRENCE/POCKET NUMBER: MIT7
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : 509 amino acids
amino acid
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-749-907-4
                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                         301
                          61
                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                              g
                                                                                                           ò
                                                                                                                                                 a
                                                                                                                                                        420
                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                 421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                 PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                           301 FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                           AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 4, Application US/08559505
Patent No. 5952333
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Susan L. Acton, Attilio Rigotti, Helen H. APPLICANT: Hobbs and Kathy Landshulz
TITLE OF INVENTION: METHODS FOR MODULATION OF LIPID UPTAKE
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /Function = "Amino acid sequence for the murine Scavenger Receptor Class BI."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       91.3%; Score 2447; DB 1; Length 5 llarity 89.0%; Pred. No. 8.7e-260; Conservative 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPOTER: IBM PC compatible
COMPOTER: IBM PC compatible
COMPOTER: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
SURNERNT APPLICATION DATA:
APPLICATION NUMBER: US/08/559,505
FILING DATE: 25-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pablet, Patera L.
NAME: Pablet, Patera L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7150
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                       SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                            481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc. feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       509 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: 1.509
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Atlanta
STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Simi
Matches: 453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
US-08-559-505-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-559-505-4
                                                                                                                                                        361
                                                                   301
                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ą,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                   ò
                                                                                                         셤
                                                                                                                                                      ò
                                                                                                                                                                                          g
                                                                                                                                                                                                                                         ठे
                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                g
```

```
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                               US-09-241-581B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
US-09-385-799-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ਠੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                      61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                            181 WGYDDPFVHFLNIYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNF9RIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEPFSPEACRSMKLTYNESRVPEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                    VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                             9
                                                                                                                                                                                                                                 9
                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKXVVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                             FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                         MGYEDPFVNF1NKYLPDMFP1KGKFGLFVEMNNSDSGLFTVFTGVQNFSK1HLVDRWNGL
                                                                                                                                                          Gaps
                                                                                                                                                          ö
LOCATION: 1..509
CTHER INFORMATION: /Function = "Amino acid sequence for the cother Information: murine Scavenger Receptor Class BI."
US-08-749-907-4
                                                                                                                    Length '509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Massachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                              91.3%; Score 2447; DB 1;
89.0%; Pred. No. 8.7e-260;
iive 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/241,581B
FILING DATE: 02-Feb-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC COmpatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 8, Application US/09241581B
Patent No. 6350859
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS
                                                                                                                                  Best Local Similarity 89.09
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JS-09-241-581B-8
                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT
                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
G
                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
```

```
FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 LNPPVEHSLFLDIHPVTGIPMNCSVKWQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 AMGGKPLSTFYTQLVIMPQVLHYAQYVLIGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 WGYDDFFYHFLATYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKOOVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 SKVNYWHSEQCNMINGTSGQMWAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 SKIDÝWHSEQCYMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTÝNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                O; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and Karen Koza
OF CHOLESTEROL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 4, Application US/09385799
Patent No. 6962688
GENERAL INFORMATION:
APPLICANT: MONLY Krieger, Attilio Rigotti, and Karen Koza TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROI NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADRESS:
ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory STREFT: 2800 One Atlantic Center 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                91.3%; Score 2447; DB 2; 89.0%; Pred. No. 8.7e-260;
                                                                                                                                                                                                                                                                                                                                                                      the murine Scavenger Receptor Class BI. SEQUENCE DESCRIPTION: SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                35; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                         /Function
                                                                                                                                                                                                                                                                             NAME/KEY: misc. feature
LOCATION: 1..509
OTHER INFORMATION: /Fur
TELEPHONE: (404) 873-875
INFORMATION FOR SEQ ID NO: 8:
SEQUIENE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                   MOLECULE TYPE: protein PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 89.00
Matches 453; Conservative
                                                                                                                                                                                         TOPOLOGY: linear
```

240

9 09 420

```
481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                         RESULT 15
PCT-US95-07721-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCT-US95-07721-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Б
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                   셤
  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHPYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc. feature
LOCATION: 1..509
OTHER INFORMATION: /Function = "Amino acid sequence for the
murine Scavenger Receptor Class BI."
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSSRARWVALGLGGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LINPNPKEHSLFLDIHPVTGIPMNCSVRMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 91.3%; Score 2447; DB 2; Length 509; Best Local Similarity 89.0%; Pred. No. 8.7e-260; Matches 453; Conservative 35; Mismatches 21; Indels
                                                     COMPUTER READABLE FORM:
MEDIUM TYPER PROMES FORM:
MEDIUM TYPER: FIORPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,799
FILING DATE: 30-Aug-1999
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE: 15-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: PADAC. Patrea L.
RECIFERRATION NUMBER: 31,284
RECIFERRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear MOLECULE TYPE: protein
                    STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-385-799-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
```

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPNEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSIH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKOVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /Punction = "Amino acid sequence for
the murine Scavenger Receptor Class BI.
                                                                                                             Sequence 8, Application PC/TUS9507721

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 2800 One Atlantic Center
CITY: Atlanta
STREET: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07721
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     91.3%; Score 2447; DB 4;
89.0%; Pred. No. 8.7e-260;
tive 35; Mismatches 21;
481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION INDBER: 31,284
REFERENCE/DOCKET NUMBER: MITGEROMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFRAX: (404) 873-8794
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : 509 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc. feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 1..509
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
```

ö

Search completed: February 23, 2006, 12:47:15 Job time : 36 secs

THIS PAGE BLANK (USPTO)

```
FEATURE:
NAME/KEY: CARBOHYD
LOCATION: (173)..(175)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: (227)..(229)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (212)..(214)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: CARBOHYD
LOCATION: (255)..(257)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                  TYPE: PRT
ORGANISM: Hamster
                                                                                                                                                                                                                                                                                                                                       JS-09-148-012-2
                                                                        692
673
647.5
647.5
600
567
567
578.5
528.5
528.5
528.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EATURE:
                                                                                 Pebruary 23, 2006, 12:46:19 ; Search time 121 Seconds
    (without alignments)
    1757.646 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.
                                                                                                                                                                      1 MGGSARARWVAVGLGVVGLL......YSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      equence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ednence
                                                                                                                                                                                                                                                                                                                                                                                                         Published Applications AA Main:*

(cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
(cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
(cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
(cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*
(cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*);
(cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-276-774-2382
US-10-648-593-219
US-10-794-198A-12
US-10-210-172-116
US-10-450-763-52676
                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                              1867569 seqs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUMMARIES
                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                         OM protein - protein search, using sw model
                                                                                                                                                                                                    BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                         length: 0
length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query
Match Length DB
                                                                                                                                       US-08-765-108-4
2681
                                                                                                                                                                                                                                                                                                         Bed
Bed
                                                                                                                                           Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2237
2236
2236
2203
2112.5
2066.5
2006.5
1881
                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                        Minimum DB B
Maximum DB 8
                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                Searched:
                                                                                                                                                                                                                                                                                                                                                                                                              Database
                                                                                     Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Result
No.
```

```
28 751.5 28.0 478 4 1810-408-756-567 Sequence 67, App 20 751.5 28.0 478 4 1810-408-756-567 Sequence 67, App 20 751.5 28.0 478 4 1810-708-751.158 Sequence 18, App 20 751.5 28.0 478 4 1810-751-158 Sequence 18, App 20 751.5 28.0 478 4 1810-751-158 Sequence 17, App 13 692 25.8 472 4 1810-408-751-158 Sequence 21, App 13 692 25.8 472 4 1810-751-158 Sequence 21, App 13 692 25.8 472 4 1810-10.395-34 Sequence 21, App 13 692 25.8 472 4 1810-10.395-34 Sequence 21, App 13 600 25.2 25.8 472 4 1810-10.395-34 Sequence 21, App 13 600 25.2 25.8 472 4 1810-10.395-34 Sequence 61.2 App 13 600 25.2 25.8 472 4 1810-10.395-34 Sequence 61.2 App 14 1810-10.395-34 Sequence 61.2 App 15 1810-10.395-34 Sequence 61.2 App 15 1810-10.395-34 Sequence 61.2 App 15 1810-10.395-34 Sequence 61.2 App 15 1810-395-34 Sequ
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                        VPFYLSVYFPEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGGRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SKVNYWHSEQCHMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INPOPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 AMGGEPLNTFYTQLVIAMPQVIQYVQYVILGILGCGLLLLVPVIYQLKSQEKCFLFWSGSKKG 480
   301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                     1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Acton, Sugan L.
APPLICANT: Ordovas, Jose M.
APPLICANT: Ordovas, Jose M.
TTULE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILE REFERENCE: MNI-172CP2
CURRENT PRILIGATION NUMBER: US/09/779,152
CURRENT FILING DATE: 1997-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 100.0%; Score 2681; DB 3;
Best Local Similarity 100.0%; Pred. No. 4.1e-258;
Matches 509; Conservative 0; Mismatches 0;
                                                                                                                                                                                                  481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                              481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                    Sequence 4, Application US/09779152
Publication No. US20030044782A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Human
US-09-779-152-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                       JS-09-779-152-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                    361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                  ò
                                                                     유
                                                                                                        ò
                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 FQPDRSHGSESDYIILPNILVLGGAVNMESKSAGLKLAMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MGYEDPPVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Score 2681; DB 3;
; Pred. No. 4.1e-258;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                                                                   OTHER INFORMATION: Potential FEATURE:
NAME/KEY: CARROTTON:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Potential US-09-148-012-2
                                                                                                                                                                                             LOCATION: (383)..(385)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                          LOCATION: (251)
OTHER INFORMATION: Potential
OTHER INFORMATION: Potential
                                                       LOCATION: (310)..(312)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: (334)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION:
                                                                                                                                                                                                                                FEATURE:
NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: DISULFID
LOCATION: (384)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: DISULFID LOCATION: (470)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: DISULFID
                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                      NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: DISULFID
                      FEATURE:
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OCATION
                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION
                                                                                                                                                                                                                                                                    LOCATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER
```

셤

g ઠે a 8 임 ò g ठे

ઠ

```
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FQPDRSHGSESDYIILPNILVLGGAVMRSKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPRACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421 AMGGEPLNTFYTÓLVIAMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 509;
                                                                                                                                                                                                          TITLE OF INVENTION: SHEAD L.

TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USES THEREFOR FILE REPRENCE: MIA-005.03

CURRENT APPLICATION NUMBER: US/10/023,610

CURRENT FILING DATE: 2001-12-17

EARLIER APPLICATION NUMBER: 09/686,106

EARLIER PILING DATE: 2000-10-10

EARLIER PILING DATE: 1998-02-27

EARLIER PILING DATE: 1998-02-27

EARLIER FILING DATE: 1998-02-07

EARLIER FILING DATE: 1998-02-07

EARLIER FILING DATE: 1998-02-07

NUMBER OF SEQ ID NOS: 121

SOUTHWARE: PATENTIN VOICE: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 2681; DB 4;
Pred. No. 4.1e-258;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                         481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                             Sequence 4, Application US/10023610 Publication No. US20030023059A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 509; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Human
US-10-023-610-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 509
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
6, 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

RESULT 4 US-10-178-611-2

```
OTHER INFORMATION: /note= "Positions 102-104, 108-110,
173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent
potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: 21..470
OTHER INFORMATION: /note= "The cysteines at positions 21,
251, 280, 321, 323, 334, 384 and 470 represent potential disulfide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Amino acid sequence for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "Putative transmembrane domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "Putative transmembrane domain.
Sequence 2, Application US/10178611
Publication No. US20030167475A1
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION:
MUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 2681; DB 4; Length 509; Best Local Similarity 100.0%; Pred. No. 4.1e-258; Matches 509; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                   ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                    STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: 1..509
OTHER INFORMATION: /function= "Aminc
Hamster Scavenger Receptor Class B-I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/178,611
FILING DATE: 24-0un-2002
CLASTPICATION: <UNKNOWN>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-178-611-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 509 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (404) 873-CINFORMATION FOR SEQ ID NO: 2: SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: 9..32
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: 1..385
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HYPOTHETICAL: NO FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Domain
                                                                                                                                                                                                                                                                 CITY: Atlanta
```

```
61 VPFYLSVYFPEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKVVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 100.0%; Score 2681; DB 4; Length 509; Best Local Similarity 100.0%; Pred. No. 4.1e-258; Matches 509; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: CARBOHYD
LOCATION: (330)..(332)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: DISULFID
LOCATION: (334)...(334)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
NAME/KEY: DISULFID
LOCATION: (384)...(384)
PEATURE:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: DISULFID
LOCATION: (470)...(470)
CTHER INFORMATION: Potential
US-10-164-863-2
                                                             LOCATION: (173)...(175)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                 NAME/KEY: CARBOHYD
LOCATION: (212)..(214)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                                                                                                                                                                                                                  LOCATION: (255)..(257)
OTHER INFORMATION: Potential
FRATURE:
NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: CARBOHYD
LOCATION: (383)..(385)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: DISULFID
LOCATION: (21)..(21)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: DISULFID
LOCATION: (280)...(280)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KEY: DISULFID
LOCATION: (321)...(321)
PEATURE INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: DISULFID
LOCATION: (323)..(323)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                  LOCATION: (227)..(229)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: (310)..(312)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: DISULFID
LOCATION: (251)...(251)
OTHER INFORMATION: Potential
THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                  NAME/KEY: CARBOHYD
LOCATION: (255)..(;
                                            NAME/KEY: CARBOHYD
                                                                                                                                                                                                                           NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2, Application US/10164863
Publication No. US20030232879A1
GENERAL INPORMATION:
GENERAL INPORMATION:
FAPPLICANT: Krieger, Monty
APPLICANT: Miettinen, Helena
TITLE OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY
FILE REFERENCE: MIT 9094
CURRENT APPLICATION NUMBER: US/10/164,863
CURRENT PELLING DATE: 1998-09-04
FRIOR PILLING DATE: 1998-09-04
FRIOR FILLING DATE: 1997-09-05
FRIOR FILLING DATE: 1997-09-05
SOFTWARE: PATENTIN NUMBER: US 60/057,943
FRIOR FILLING DATE: 1997-09-05
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 2
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 2
TYPE: PRI
ORGANISM: Cricetulus griseus
                                                                                                                                                                                                          121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                               SKVNYWHSEQCINMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 AMGGEPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                 61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                     181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                 241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                       61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGORAFMNRTVGEIL 180
                         1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SQDKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: CARBOHYD
LOCATION: (102)..(104)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY: TRANSMEM
LOCATION: (9)..(32)
OTHER INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: TRANSMEM
LOCATION: (440)...(464)
OTHER INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (108) .. (110)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
NAME/KEY: CARBOHYD
LOCATION: (108)..(1
                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                       8
                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
```

ô

Db   241 SKVNYWHSEQCNMINGTSGQWWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR   201 FTAPKTLFANGSVYPPNEGCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG	Qy 481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509	PRIOR PELICATION NUMBER: 09/148,012 PRIOR PILICATION NUMBER: 09/148,012 PRIOR PILING DATE: 1998-10-04 PRIOR PILING DATE: 1998-10-04 PRIOR PILING DATE: 1997-09-05 NUMBER OF SEQ ID NOS: 9 SOFTWARE: PATENTIN VET: 2.0 SEQ ID NO. 2 LENGTH: 509 TYPE: PAT PRATURE: NAME/KEY: TRANSMEM LOCATION: (9)(32) OTHER INFORMATION: PUTATIVE PEATURE: NAME/KEY: TRANSMEM LOCATION: (440)(464) OTHER INFORMATION: PUTATIVE PEATURE: NAME/KEY: TRANSMEM LOCATION: (440)(464) NAME/KEY: TRANSMEM PEATURE: NAME/KEY: CARBOHYD	DOCATION: (102)(104)  OTHER INFORMATION: Potential FEATURE: NAME/KEY: CARBOHYD LOCATION: (108)(110) COTHER INFORMATION: Potential FEATURE: NAME/KEY: CARBOHYD LOCATION: (173)(175) OTHER INFORMATION: Potential FEATURE: NAME/KEY: CARBOHYD LOCATION: (212)(214) COTHER INFORMATION: Potential FEATURE: NAME/KEY: CARBOHYD LOCATION: (227)(229) COCATION: (227)(257)(257)(257)(257)
61 VPFYLSVYFPEVVNPSEILKGEKPVVRERGPYVREFRHKANITFNDNDTVSFVEHRSLH 120 121 FQPDRSHGSESDYIILPNILVLGGAVWHESKSAGLKLMMTLGLATLGQRAFWNRTVGEIL 180 121 FQPDRSHGSESDYIILPNILVLGGAVWHESKSAGLKLMMTLGLATLGQRAFWNRTVGEIL 180 121 FQPDRSHGSESDYIILPNILVLGGAVMMSSKSAGLKLMMTLGLATLGQRAFWNRTVGEIL 180 181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240 181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240 241 SKVNYWHSBQCNMINGTSGQMWAPFWTPQSSLEPFSPEAGRSMKLTYHDSGVFEGIPTYR 300 241 SKVNYWHSBQCNMINGTSGQMWAPFWTPQSSLEPFSPEAGRSMKLTYHDSGVFEGIPTYR 300	301 FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360	WESULT 6  US-10-212-848-4  Sequence 4, Application US/10212848  Publication No. U02004002325A1  GENERAL INFORMATION:  APPLICANT: MCCARTHY, Jeanette  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING RISK FACTORS  TITLE OF INVENTION: FOR ABNORMAL LIPID LEVELS AND THE DISEASES AND DISORDERS  TITLE OF INVENTION: ASSOCIATED THEREWITH  FILE REFERENCE: MAI-012  CURRENT APPLICATION NUMBER: US/10/212,848  CURRENT PRILING DATE: 2002-08-05  NUMBER OF SEQ ID NOS: 121  SOFTWARE: Patentin Ver. 2.0  SEQ ID NO 4  LENGTH: 509  TYPE: PRT  CORGANISM: Homo sapiens  US-10-212-848-4	Query Match

```
LOCATION: 1..385

TOTHER INFORMATION: /note= "Positions 102-104, 108-110,
173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent potential N-linked glycosylation sites."
  361 LNPDPREHSLFLDIHPVTGIPMVCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLMFEQSG 420
                                                                AMGGEPLNTFYTOLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                           421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: 1..509
OTHER INFORMATION: /function= "Amino acid sequence for the
Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: 9..32
OTHER INFORMATION: /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "Putative transmembrane domain.
                                                                                                                                                                                                                                                                                                                    Sequence 2, Application US/10933037
Publication No. US20050136005A1
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Patrea L. Pabst, Arnall Golden & Gregory
STREE: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/933,037
FILING DATE: 02-Sep-2004
CLASSIFICATION: CURLOWN-
ATORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                      481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                            481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 509 amino acida TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE
                                                                                                                                                                                                                                                                               RESULT 8
US-10-933-037-2
                                                                   421
                                                                                                         셤
                                                                                                                                                                                                  셤
                a
                                                                   ò
                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDRSHGSESDYIILPNILVIGGAVMÆSKSAGLKLMMTLGLATLGQRAFMRRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; DB 4;
4.1e-258;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          i; Score 2681; Di; Pred. No. 4.1e0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (384)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                                                                    LOCATION: (383)..(385)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                    LOCATION: (251)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: (323)
OTHER INFORMATION: Potential
LOCATION: (310)..(312)
OTHER INFORMATION: Potential
                                                                                         LOCATION: (330)..(332)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                             LOCATION: (21)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: (280)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: (470)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: DISULFID
                                                                   NAME/KEY: CARBOHYD
                                                                                                                                                            NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                       NAME/KEY: DISULPID
                                                                                                                                                                                                                                                                                                                                                NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-706-073-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OCATION:
```

셤

ઠ

ઠે g ò 셤

ò

g ઠે g

ઠે

```
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
US-10-178-611-4
                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                      61
                                                                                                                                                           121
                                                                                                                                                                                                                               181
                                            셤
                                                                                     ò
                                                                                                                  셤
                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                           ઠે
                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
LOCATION: 21..470
OTHER INFORMATION: /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                        VEYLSVYFFEVVNPSELLKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                    FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGRIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SKVNYWHSEQCNMINGTSGQMWAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AMGGEPLINTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptives And
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REFERENCE: MIT-SCIP2
CURRENT APPLICATION NUMBER: US/09/148,012
CURRENT APPLICATION NUMBER: US/09/148,012
EARLIER PILING DATE: 1998-09-04
EARLIER PILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 509
TYPE: PRT
ORGANISM: Mouse
                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                   1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                 VPPYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                        WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 91.3%; Score 2447; DB 3; Length 509; Best Local Similarity 89.0%; Pred. No. 9.3e-235; Matches 453; Conservative 35; Mismatches 21; Indels
                                                                                                                                                                            0; Indels
                                                                                                                                        Score 2681; DB 5;
Pred. No. 4.1e-258;
                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linkages."
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/09148012
Patent No. US2002099040A1
GENERAL INFORMATION:
                                                                                                                                     Query Match
Best Local Similarity 100.0%;
Matches 509; Conservative 0
                                                                                                   US-10-933-037-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-148-012-4
                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

```
61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                    FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AMGGEPILNTFYTOLVILMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                  421 AMGGRPLSTFYTQLVLMPQVLHYAQYVLLGLGGBLLLLVPIICQLRSQEKCFLFWSGSKKG
1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                      SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                      WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/10178611
Publication No. US2030167475A1
GENERAL INFORMATION:
APPLICANT: MONEY Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: Georgia

STATE: Georgia

COUNTRY: USA

ZIP: 30309-3450

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/178,611
FILING DATE: 24-Jun-2002
CLASSIFICATION: CURKNOWN>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/749,907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NUMBER Pablet, Patrea L.
RGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
```

```
Query Match
Best Local Similarity 89.0%
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 89.0
Matches 453; Conservative
             ; TYPE: PRT
; ORGANISM: Mus musculus
US-10-164-863-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Mouse US-10-706-073-4
LENGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-706-073-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                    ઠ
                                                                                                                                                                                셤
                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-164-863-4

Sequence 4, Application US/10164863

Sequence 4, Application US/10164863

Sequence 4, Application US/20030232879A1

Sequence 10. US20030232879A1

GENERAL INFORMATION:

APPLICANT: Krieger, Monty

APPLICANT: Miettinen, Helena

TITLE OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY

TITLE OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY

CURRENT APPLICATION NUMBER: US/10/164,863

CURRENT FILING DATE: 1998-09-04

PRIOR FILING DATE: 1998-09-04

PRIOR FILING DATE: 1999-09-05

NUMBER OF SEQ ID NOS: 15

SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVIG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLMGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                        FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                      61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                      09
                                                                                                                                                OTHER INFORMATION: /Function = "Amino acid sequence for the murine Scavenger Receptor Class BI." SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                     1 MGGSSRARWVALGLGALGLEPAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                     1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                       ó
                                                                                                                                                                                                                                    Length 509;
                                                                                                                                                                                                                                                                    21; Indels
                                                                                                                                                                                                                                   Query Match
91.3%; Score 2447; DB 4;
Best Local Similarity 89.0%; Pred. No. 9.3e-235;
Matches 453; Conservative 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                               NAME/KEY: misc. feature LOCATION: 1..509 OTHER INFORMATION: /Fur
                                 LENGTH: 509 amino acids
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS
                                                              TOPOLOGY: linear MOLECULE TYPE: protein
                                                  TYPE: amino acid
                                                                                                   FEATURE
                                                                                                                                                                                                   US-10-178-611-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                         241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEPFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                             61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                               SKYNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSBAVLG 360
                                                                                                                                        9
                                                                                          9
                                                                                                                     1 HGSSRARHVALGLGALGLLFAALGVVMILMVPSLIKQQVLKOVRIDPSSLSFGMWKEIP
                                                                                                                                                                                     61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                      WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                          1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKBIP
                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptive
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REPERENCE: MIN8299
CURRENT APPLICATION NUMBER: US/10/706,073
CURRENT PILING DATE: 2003-11-12
PRIOR APPLICATION NUMBER: 09/148,012
PRIOR APPLICATION NUMBER: 09/148,012
PRIOR PILING DATE: 1998-10-04
PRIOR FILING DATE: 1998-10-04
PRIOR FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 9
SEQ ID NO 4
LENGTH: 509
                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 509,
  Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 91.3%; Score 2447; DB 4;
89.0%; Pred. No. 9.3e-235;
ative 35; Mismatches 21;
91.3%; Score 2447; DB 4;
89.0%; Pred. No. 9.3e-235;
ative 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/10706073
Publication No. US20040077526A1
GENERAL INFORMATION:
```

ö

240

480

```
61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               POPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 INPNPKEHSLPLDIHPVTGIPPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLMFEQSG 420
                                                                                                          "Amino acid sequence for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                            1 MGGSSRARWVALGLGALGLLFRALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGWWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 SKIDÝWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTÝNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 565, Application US/1032281

Publication No. US20040126762A1

GENERAL INFORMATION:

APPLICANT: David W. Morris

APPLICANT: David W. Morris

APPLICANT: Marc S. Malandro

TITLE OF INVENTION: Novel Compositions and Methods in Cancer

FILE REFERENCE: 529452001000

CURRENT APPLICATION UNDER: US/10/322,281

CURRENT FILING DATE: 2002-12-17

NUMBER OF SEQ ID NOS: 866

SEQ ID NO 565

LENGTH: 513
                                                                                                                                                                                                                 Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 513;
                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                               Query Match 91.3%; Score 2447; DB 5; Best Local Similarity 89.0%; Pred. No. 9.3e-235; Matches 453; Conservative 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88.5%; Score 2374; DB 4;
87.6%; Pred. No. 1.8e-227;
                                                                                                    OTHER INFORMATION: /Function = "A murine Scavenger Receptor Class BI. SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                  misc. feature
                                                                                    LOCATION: 1..509
OTHER INFORMATION:
                      MOLECULE TYPE: protein FEATURE:
    TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 87.6
Matches 446; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Mus musculus
US-10-322-281-565
                                                                NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-322-281-565
                                                                                                                                                                       US-10-933-037-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                  120
                                                                                                          61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITENDNDTVSFVENRSLH 120
                                                                                                                                                                       180
                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                      SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                  FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LINDNDKEHSLFLDIHPVTGIPMNCSVKMOLSLYIKSVKGIGQTGKIEPVVLPLLWFEOSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MGGSARARWVAVGLGVVGLLCAVLGVVM1LVMPSL1KQQVLKNVR1DPSSLSFAMWKE1P
                            1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKQVVLKOVRIDPSSLSFGMWKEIP
                                                                                  VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                  FOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                         181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                           241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4, Application US/10933037
Publication No. US20050136005A1
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/933,037
FILING DATE: 02-Sep-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPERENCE/DOCKET NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (404) 873-879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
US-10-933-037-4
                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
  ઢ
                                                                                    ò
                                                                                                                      셤
                                                                                                                                                                  ઠે
                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

us-08-765-108-4.rapbm

```
셤
                                    ò
                                                         g
                                                                                         δ
                                                                                                            g
                                                                                                                                          8 8 8
                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                 69 VPFYLSVYFFEVVNPNEVLAGQKPVVRERGPYVYREFRQXVNITFNDNDTVSFVENRSLH 128
                                                                                                                      129 FQPDKSHGSESDYIVLPVILVILGGSIIMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 188
                                                                                                                                                                                                                SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                              120
                                                                                                        FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                           WGYEDPFVNFINKYLPDMPPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                     FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                   LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                         68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MGCSAKARWAAGALGVAGLLCAVLGAVMIVWVPSLIKQQVLKNVRIDPSSLSFNWWKEIP
               AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGCLLLLVPVIYQLRSQEKCFLFWSGSKKG
                                                   VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
MGGSARARWVAVGLGVVGLLCAVLGVVM1LVMPSL1KQQVLKNVR1DPSSLSFAMWKE1P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 2, Application US/09779152

Publication No. US20030044782A1

GENERAL INFORMATION:

APPLICANT: Acton, Susan L.

APPLICANT: Acton, Susan L.

APPLICANT: McCarthy, Jeanette J.

TILLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND TILLE OF INVENTION: DIAGNOSTIC ASSAYS AND FILE OF INVENTION: CARDIOVASCULAR DISORDERS

FILE REFERENCE: MNI-172CP2

CURRENT APPLICATION NUMBER: 08/09/779,152

CURRENT FILING DATE: 201-02-08

PRIOR FILING DATE: 1997-07-10

NUMBER OF SEQ ID NOS: 121

SOFTWARE: PATCHIL VET. 2.0

SEQ ID NO 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        48; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 83.7%; Score 2244; DB 3;
Best Local Similarity 81.5%; Pred. No. 1.7e-214;
Matches 415; Conservative 46; Mismatches 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Human
US-09-779-152-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                  61
                                                                                                       121
                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                 365
                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                           181
                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                          485
                                                                                                                            셤
                                                                                                                                                           ð
                                                                                                                                                                               g
                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                 ď
                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                       음
                                                  ò
                                                                                              ò
```

```
300
            300
                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                        360
                                                                                                                                                                                                                 INPOPREHSLFLDIHPVTGIPMNCSVKLOISLYIKAVKGIGOTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                            420
                                                                                                                       SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR
FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
                                                              SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                            FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                            FVAPKTIFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG
                                                                                                                                                                                                                               WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                            SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                          121
                                                   181
                                                                             181
                                                                                                                                   241
                                                                                                                                                                                        301
                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                            481
                                                                                                        241
                                                                                                                                                            301
```

Search completed: February 23, 2006, 12:51:23 Job time : 122 secs Appli Appli Appli Appli Appli 2, Appl

US-11-077-550-108
US-11-077-550-108
US-11-077-550-1010
US-10-453-372-1010
US-10-453-372-1012
US-11-113-444-53
US-11-073-444-53
US-11-0922-232B-56
US-10-922-232B-56
US-11-052-534A-92
US-11-052-554A-92
US-11-052-554A-92
US-11-062-554A-92
US-11-142-700-10

Sequence Sequence Sequence Sequence Sequence Sequence

Sequence Seq

ALIGNMENTS

```
1 MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  83.4%; Score 2236; DB 7; Length 509;
81.3%; Pred. No. 3e-205;
ive 46; Mismatches 49; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MESULI.

US-11-055-109A-12

Sequence 12, Application US/11055309A

Publication No. US2050282750A1

GENERAL INFORMATION:

APPLICANT: Buncan, Keith

APPLICANT: Bailey, Kathy

FILE REFERENCE: HO-P02351US5

CURRENT APPLICATION NUMBER: US 10/428,551

PRIOR FILING DATE: 2005-012-06

PRIOR PELING DATE: 2001-12-07

PRIOR FILING DATE: 2001-12-07

MUMBER OF SEQ ID NOS: 17

SOFTWARE: PATENTIN VERSION 3.3

SEQ ID NO IN CONTROL SEQ ID NOS: 17

LEAGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 81.34
Matches 414; Conservative
; TYPE: PRT
; ORGANISM: HUMAN
US-11-055-309A-12
                                                                                                                                                                                                                                                                                                                             885.5
85.5
85.5
84.8
84.5
84.5
84.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10295, A
23, Appl
20, Appl
114, App
24, Appl
22, Appl
175, Appl
175, Appl
171, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                App
App
Appl
App
Appl
Appl
Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 12, Appl
Sequence 219, App
Sequence 918, App
                                                                                                                                                                                           February 23, 2006, 12:47:29; Search time 11.5 Seconds (without alignments) 658.923 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence 10295, Sequence 10295, Sequence 23, A Sequence 20, A Sequence 114, Sequence 16, A Sequence 22, A Sequence 22, A Sequence 175, Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequence 175, A Sequenc
                                                                                                                                                                                                                                                                                                                    US-08-765-108-4
2681
1 MGGSARARWVAVGLGVVGLL.....YSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Published Applications AA New:*

1: /cgn2_6/ptodata/1/pubpaa/USO8 NEW PUB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/USO6 NEW PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/USO7 NEW PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/PCT NEW PUB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/USO7 NEW PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/USO6 NEW PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/USI0 NEW PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/USI0 NEW PUB.pep:*
                     GenCore version 5.1.7 (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-072-175-219
US-10-821-234-918
US-11-098-686-10295
US-11-142-700-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-077-550-90
US-11-077-550-82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  117670 segs, 14887254 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                         OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query
Match Length
                                                    Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                           BLOSUM62
                                                                                                                                                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score
                                                                                                                                                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database
                                                                                                                                                                                                    Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š.
```

ö

Gaps

.; 0

9

Db 301 FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG 360  Oy 361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420  1	APPLICANT: Stache-Crain, Birgit APPLICANT: Andarmani, Susan APPLICANT: Tang, Y. Tom TITLE OF INVENTION: Methods for Diagnosis and T TITLE OF INVENTION: Methods for Diagnosis and T FILE REFERENCE: 821A CURRENT APPLICATION NUMBER: US/10/821,234 CURRENT FILING DATE: 2003-04-07 PRIOR APPLICATION NUMBER: US 60/462,047 PRIOR PLING DATE: 2003-04-07 NUMBER OF SEQ ID NOS: 1704 SEQ ID NO 918 LENGTH: 532 TYPE: PRT ORGANISM: Homo sapiens S-10-821-234-918 Query Match  83.4%; Score 2236; DB	Local Similarity 81.3%; Pred. No. 3.2e-205; es 414; Conservative 46; Mismatches 49; Indels 1 MGGSARARWANGLGVGLLCAVLGVVMILVMPSLIKQQVLRVNIDPS 24 MGCSAKRWANGALGVAGLLCAVLGAVMIVWPSLIKQQVLRVNIDPS 61 VPFYLSVYFFEVVNPSELIKGEKPVVRERGPYVYBERRHKANITFNDND 61	1211144	STATE THE STATE OF
WNGL 240 PTYR 300           PTYR 300 AVLG 360 AVLG 360         ROSG 420 :     AESG 420 SKKG 480	OF COMPOUNDS THAT KINASES AND/OR LS		ADS 0; KEIP 60        KEIP 60 RSLH 120        RTFQ 120	GEIL 180    :     :
WGYKDPLVNLINKYFPGMFPFKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGL SKVNYWHSEQCNMINGTSGQMMAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR SKVDFWHSEQCNMINGTSGQMMAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR FTAPKTLFANGSVYPDNBGFCPCLESGILGNFSFSPEACRSMKLMYKESGVFEGIPTYR FTAPKTLFANGSLYPPNBGFCPCLESGILGNSFCFFGAPLFLSHPFYNADPVLSEAVLG FVAPKTLFANGSLYPPNBGFCPCLESGIQNVSTCRFGAPLFLSHPFTNADPVLAEAVTG LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYTKAVKGIGGTGKIEPVVLPLLMFEQSG LIH	RESULT 2  1. Sequence 219, Application US/11072175  1. Sequence 219, Application US/11072175  1. Sequence 219, Application US/11072175  2. Bublication No. US20060029944A1  2. GENERAL INFORMATION:  3. APPLICATION STATEMENT OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS TRITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR  3. TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS  4. TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS  5. CURRENT APPLICATION NUMBER: US/11/072,175  6. CURRENT PILING DATE: 2005-03-03-05-03-05-03-05-03-05-03-05-03-05-03-05-03-05-03-05-03-05-03-03-05-03-03-05-03-03-05-03-03-03-05-03-03-03-03-03-03-03-03-03-03-03-03-03-	D NOS: 571  tIn version 3.2  sapiens  83.4%; Score 2236; DB 7; Length 509; arity 81.3%; Pred. No. 3e-205;	14; Conservative 46; Mismatches 49; Indels 0; Gaps 18; Conservative 46; Mismatches 49; Indels 0; Gaps 1 McGSararwvavGLGVVGLLCavLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAWWKEIP 1 MGCSAKARWAAGALGAVLGAVLGAVHGAVMIVWVPSLIKQQVLKNVRIDPSSLSFNNWKEIP 1. VPPYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH:	PQPDRSHGSESDYIILPNIILVLGGAVMABSKSAGLKLMMTLGLATLGQRAFMNRTVGEIL
Db 181 WGYK Oy 241 SKVN Db 241 SKVD Oy 301 FTAP Db 301 FVAP Db 361 LAPD Db 361 LAPD Db 361 LAPD Db 421 AMGG OY 421 AMGG OY 421 AMGG Db 421 AMGG OY 421 AMGG	RESULT 2 US-11-072-19 US-11-072-19 Sequence 219, Applic, Publication No. US20, GENERAL INFORMATION; TITLE OF INVENTION; FILE REFERENCE: DOZ CURRENT FILING DATE; PRIOR APPLICATION N; PRIOR APPLICATION N; PRIOR PILING DATE; PRIOR PILING DATE; PRIOR PILING DATE;	NUMBER OF SEQ ID NOS: 5; SOFTWARE: Patentin vers; SEQ ID NO 219 LENGTH: 509 ; TYPE: PRT ORGANISM: Homo sapiens US-11-072-175-219 Query Match Best Local Similarity	Macches 414; C Qy 1 MGGS       Db 1 MGGS       Qy 61 VPFY Db 61 IPFY	Oy 121 PQPD Db 121 PQPS OY 181 WGYE Db 181 WGYKO OY 241 SKVN OD 241 SKVN OY 301 FTAP

```
JS-10-753-537-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                            Sequence 10295, Application US/11098686

Publication No. US20060024696A1

GENERAL INFORMATION: US20060024696A1

GENERAL INFORMATION: Uvek and Gebhart, Connie J.

TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES

TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING

FILE REFERENCE: 09531-128001

CURRENT APPLICATION NUMBER: US/11/098,686

CURRENT APPLICATION NUMBER: PCF/US03/31318

PRIOR FILING DATE: 2003-10-01

PRIOR PILING DATE: 2003-10-04

NUMBER OF SEQ ID NOS: 11433

SOFTWARE: REAUSEQ for Windows Version 4.0

LENGTH: 1075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93 TNILSGNISIYSIEVIQPIASIILQNEQKKNSKTTGYAIPKQVSHLLQLI---TDSKLFI 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              185 -TADELIWEIMNTVSNNSSTAQKSIEKVQLHIEDM-PYKINTALL----HDTSPLYDLFT 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      224 GVQNFS-----KIHLVDRWNGL----SKVNYWHSEQCNM----INGT--SGQ----- 260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  299 LSVPFTTTSSEDMTHFPPLLIKNSKLLFDKTHIDLHGTIKNYDTLSNLFFDGTMDVKNFS 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ----SVYFFEVVNP--SEILKGE-KPVVRERGPYVYREFRHKANITFNDNDTVSFV 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EHRSLHFQPDRSHGSESDYIILPNILVLGGAV-MMESKSAGLKLMMTLGLATLGQRAFMN 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----- 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             174 RTVGEILWGYEDPFVN-----FINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFT 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         239 NTKKTTFKVSGAIPTTNTANNITFDFTTKLEKDNSDKLTMHGQLHIEGTLPNGNTSIPIL 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                261 MWAPFMTPQS-SLEFFSPEACRSMKLTYHDSGVFEGIPTYRFTAPKTLFANGSV----- 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :: :: || ||: | :|: | :| || 38 ILSTISKQ--LKDTSISANSIGFHI---VPFPKLYLTNVILQTQKGDTIHIKECLITPKI 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 3.6%; Score 97; DB 7; Length 1075; Best Local Similarity 20.2%; Pred. No. 0.87; Matches 81; Conservative 64; Mismatches 140; Indels 116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        150 ENGSITFO: -----NNDYCF--KIIGINGKIGVSKTLTSSLKL-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 VMPSLIKOQVLKNVRIDPSSLSFAMWKEIPVP-FYL-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           314 YPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVL 354
                         481 SODKEAIOAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 23, Application US/11142700 Publication No. US20060026721A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Lawsonia intracellularis
US-11-098-686-10295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gary M. Fader
Saverio Carl Falco
Anthony J. Kinney
Jonathan E. Lightner
Guo-Hua Miao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Stephen M. Allen
APPLICANT: Gary M. Fader
APPLICANT: Saverio Carl Falco
APPLICANT: Anthony J. Kinney
APPLICANT: Jonathan E. Lightn
APPLICANT: Guo-Hua Miao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      115
                                               요
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
944 LKVLAGIDTNFTVTSKATDED-GDFAELYIFKWTALLIPPTTVLLVNLIGIVAGVSYAVN 1002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -- RERGPYVYREFRHKANIT 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               726 PVFIAATFMEQGGIPPTTNPATLLKEAIHVISCGYEDKTEWGKEIG-WIY-----GSVT 778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   105 FNDNDTVSFVEHR----SLHFQPDRSHGSESDYIILPNIL-----VLGGAVMMESKSAG 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : | : | : | : | : | 837 IWYGYHGRLRLLERIAYINTIVYPIT---SIPLIAYC--ILPAFCLITDRF-LIPEISNY 890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              215 DSGLFTVF-----TGVQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTP 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          891 ASIWFILLFISIAVTGI-----LELRWSGVSIEDWWRNEQFWVIGGTSAHLFAVFQGL 943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               269 QSSLEFFSPEACRSMKLTYHDSGVFEGIPTYRFTA----PKT-LFAN-----GSVYPPN 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             155 LKLMMTLGLATLGQRAFMNRTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20, Application US/10753537

Publication No. US20050260230A1

Publication No. US20050260230A1

Publication No. US20050260230A1

APPLICANT: STEWARD, LANCE B

APPLICANT: FERNANDEZ-SALAS, ESTER

APPLICANT: HERRINGTON, TODD M

APPLICANT: HERRINGTON, TODD M

APPLICANT: HERRINGTON TODD M

TITLE OF INVENTION: Leucine-based motif and clostridial neurotoxins

FILE REFERENCE: D-288CIP

CURRENT APPLICATION NUMBER: US/10/753,537

CURRENT FILING DATE: 2000-07-21

PRIOR FILING DATE: 2000-07-21

PRIOR FILING DATE: 2000-07-21

PRIOR FILING DATE: 2000-07-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1081;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3.3%; Score 89.5; DB 6; Length 441;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 3.4*; Score 91.5; DB 7; Length 10 Best Local Similarity 23.4*; Pred. No. 2.9; Matches 71; Conservative 45; Mismatches 120; Indels
APPLICANT: J. Antoni Rafalski
APPLICANT: Catherine J. Thorpe
TITLE OF INVENTION: Plant Cellulose Synthases
FILE REFERENCE: BB-1170
CURRENT APPLICATION NUMBER: US/11/142,700
CURRENT FILING DATE: 2005-06-01
PRIOR PLILING DATE: 2000-12-21
PRIOR PPLICATION NUMBER: US/09/720,383
PRIOR PLILING DATE: 2000-12-21
PRIOR PLILING DATE: 1998-07-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62 PFYLSVYFFE-----VVNPSEILKGEKPVV-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Clostridium botulinum
                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1081
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-11-142-700-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 20
SOFTMARE: PatentIn version 3.1
SEQ ID NO 20
LENGTH: 441
                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 29
SOFTWARE: Microsoft Office 97
SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1003 SGY 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                318 EGF 320
```

```
; TYPE: PRT
; ORGANISM: Cloe
US-11-077-550-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                ò
                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                        23;
                                                             73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL-- 119
                                                                                                                                                                    ----EGFGGIM-----QMK 194
                                                                                                                                                                                                                                                                                                                                                                                                                    ------FCPEYVSVFNNVQENK-GASIFNRR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                         345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KIEPVVLPLL-----WFEQSGAMGGEPLNTF-----YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 449 IGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGT 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301 DRLNKVLVCISDPNININIYKNKFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 360
                                                                                                                                         120 HFQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN 173
                                                                                                                                                                                                                     174 RIVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE-------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                   225 VQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                               285 LIYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSH 344
                                                                                        Best Local Similarity 18.7%; Pred. No. 1.3;
Matches 91; Conservative 67; Mismatches 146; Indels 183; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Shone, Clifford Charles
APPLICANT: Shone, Conrad Padraig
APPLICANT: Quinn, Conrad Padraig
APPLICANT: Chaddock, John
APPLICANT: Chaddock, John
APPLICANT: Marks, Philip
APPLICANT: Stancombe, Patrick
APPLICANT: Stancombe, Patrick
APPLICANT: Wayne, Jonathan
TITLE OF INVENTION: Recombinant Toxin Fragments
FILE REFERENCE: 1581.0130004
CURRENT APPLICATION NUMBER: US/11/077,550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     219 GYF--SDPAL---LL-----MHELIHVLHGLYGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 10/241,596
PRIOR FILING DATE: 2002-09-12
PRIOR APPLICATION NUMBER: 10/255,829
PRIOR APPLICATION NUMBER: 09/255,829
PRIOR FILING DATE: 1999-02-23
PRIOR FILING DATE: 1997-08-22
PRIOR PILING DATE: 1997-08-22
PRIOR PILING DATE: 1996-12-27
PRIOR PILING DATE: 1996-12-37
PRIOR PILING DATE: 1996-12-37
PRIOR PILING DATE: 1996-12-13
PRIOR PILING DATE: 1996-12-13
PRIOR PILING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SOFTWARE: PAECHLIN VERSION 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 114, Application US/11077550
Publication No. US20050244435A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                          177 ION----HFASR----
                                                                                                                                                                                                                                                                                                                                                                                                                    195 -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : : |:
361 IAENYKI 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         405
                                                                                                                                                                          셤
                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                           ઠે
```

```
73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL-- 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             303 DRINKVLVCISDPNININIYKNKFKDKYKYFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 362
                                                                                                                                                                                                                                                                                                                                                         225 VONFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -----OMK 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              285 LTYHDSGVPEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -------FCPEYVSVFNNVQENK-GASIFNRR 220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                405 KIEPVVLPLL-----WFEQSGAMGGEPINTF------YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    449 LGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGT 502
                                                                                                                                                                                                                                                                                                                       120 HFQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN 173
                                                                                                                                                                                                                                                                                                                                                                                                                                        174 RTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      221 GYF--SDPAL---IL-------MHELIHVLHGLYGI------
                                                                                                                                                                                                                                                             16 IDNNNIIMMEPPPARGTGRY-YKAPKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCE
                                                                                                                                            Gaps
                                                                               ; Score 89.5; DB 7; Length 458; ; Pred. No. 1.3; 67; Mismatches 146; Indels 183;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Sutton, J. Mark
APPLICANT: Stancombe, Patrick
APPLICANT: Stancombe, Patrick
APPLICANT: Wayne, Jonathan
TITLE OF INVENTION: Recombinant Toxin Fragments
FILE REFERENCE: 1581.013004
CURRENT APPLICATION NUMBER: US/11/077,550
CURRENT FILING DATE: 2005-03-11
PRIOR APPLICATION NUMBER: 10/241,596
PRIOR APPLICATION NUMBER: 09/255,829
PRIOR FILING DATE: 1999-02-23
PRIOR APPLICATION NUMBER: PCT/GB97/02273
PRIOR APPLICATION NUMBER: 08/782,839
PRIOR FILING DATE: 1996-12-27
PRIOR PELING DATE: 1996-12-27
PRIOR FILING DATE: 1996-12-27
PRIOR APPLICATION NUMBER: GB9625996.5
PRIOR FILING DATE: 1996-12-13
PRIOR APPLICATION NUMBER: GB9625996.5
PRIOR APPLICATION NUMBER: GB9625996.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----EGFGGIM-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24, Application US/11077550 Publication No. US20050244435A1 GENERAL INFORMATION:
APPLICANT: Shone, Clifford Charles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Quinn, Conrad Padraig
Foster, Keith Alan
Chaddock, John
Marks, Philip
Clostridium botulinum
                                                                                  Query Match
Best Local Similarity 18.7%;
Matches 91; Conservative 6'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    179 IQN----HFASR-----
                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : : |:
363 IAENYKI 369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        197
```

-RERGPYVYREFRHKANIT

63;

```
212 NNSDSGLF-TVFTGVQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQS 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 271 SLEFFSPEACRSMKLTYHDSGVFEGIPTYRFTA----PKT-LFAN-----GSVYPPNEG 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       105 FNDNDTVSFVEHR----SLHFQPDRSHGSESDYIILPNIL-----VLGGAVMMESKSAG 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             476 VLAGIDTNFTVTSKASDED-GDPAELYVFKWTSLLIPPTTVLIVNLVGIVAGVSYAINSG 534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      309 -- EDILTGFKWHARGWISIYCMPPRPAFKGSAPINLSDRLNOVLRWALGSIEIFLSRHCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               155 LKCAMWTLGLATLGQRAFWNRTVGEILWGYEDPFVNF-INKY--LPDDMFPIKGKFGLFVEM
                                                                                                                                                                                                                                                         Length 610;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3.3%; Score 89.5; DB 7; Length 858;
                                                                                                                                                                                                                                                                                                                                     46; Mismatches 121; Indels
                                                                                                                                                                                                                                                         DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Recombinant Toxin Fragments FILE REFERENCE: 1581.0130004
                                                                                                                                                                                                                                                                                                                                                                                                                      62 PFYLSVYFFE-----WNPSEILKGEKPVV-
                                                                                                                                                                                                                                                     3.3%; Score 89.5; 23.6%; Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/11/077,550 CURRENT FILING DATE: 2005-03-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 09/255,829
PRIOR PILLING DATE: 1999-02-23
PRIOR APPLICATION NUMBER: 07/GB97/02273
PRIOR PILLING DATE: 1997-08-22
PRIOR PILLING DATE: 1996-12
PRIOR PILLING DATE: 1966-12-27
PRIOR APPLICATION NUMBER: GB9625996.5
PRIOR APPLICATION NUMBER: GB9625996.5
PRIOR APPLICATION NUMBER: GB9615671.4
PRIOR PILLING DATE: 1996-08-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 1999-02-23
APPLICATION NUMBER: PCT/GB97/02273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 10/241,596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/11077550
No. US20050244435A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Shone, Clifford Charles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Quinn, Conrad Padraig
Foster, Keith Alan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Clostridium botulinum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sutton, J. Mark
Stancombe, Patrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 179
SOFWARE: PatentIn version 3.1
SEQ ID NO 22
LENCTH: 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 2002-09-12
                                                                                                                                                                                                                                                                                               Best Local Similarity 23.6
Matches 71; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jonathan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chaddock, John
Marks, Philip
        SEQ ID NO 16
LENGTH: 610
TYPE: PRT
ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             535 Y 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             320 F 320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 22, Appropries Sequence 22, Appropries 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, April 22, Apri
                                                                                                                                                                             US-11-142-700-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IS-11-077-550-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-11-077-550-22
                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                            23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       33 YYDPDYLNTNDKKNIFLQTMIKLFNRI--KSKPLGEKLLEMINGIPYLGDRRVPLEEFN 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : : : | : | : | : | : | 131 TNIASVT-----VNKLISNPGEVERKKGIFANLIIFGPGPVLNENE----TIDIG 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                405 KIEPVVLPLL-----WFEQSGAMGGEPLNTF-----YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301 DRINKVLVCISDPNININIYKNKFKDKYKKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120 HFQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 174 RIVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE-------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----OMK 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   285 LTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----FCPEYVSVFNNVQENK-GASIFNRR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            243 KVDD--LPIVPNEKKFFMQSTDAIQAEELYTFGGQDPSIITPSTDKSIYDKVLQNFRGIV 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             449 LGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGT 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL--
                                                                                                                                                                                                                                                                                                                                                               Query Match 3.3%; Score 89.5; DB 7; Length 548; Best Local Similarity 18.7%; Pred. No. 1.7; Matches 91; Conservative 67; Mismatches 146; Indels 183; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            219 GYP--SDPAL---IL-------MHELIHVLHGLYGI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPLICANT: J. Antoni Rafalski.
PPLICANT: Catherine J. Thorpe
ITLE OF INVEXTION: Plant Cellulose Synthases
ILB REPERENCE: BB-1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/11/142,700 CURRENT FILING DATE: 2005-06-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US/09/720,383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/092,844
PRIOR FILING DATE: 1998-07-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/11142700
                                                                                                                                                            LENGTH: 548
TYPE: PRT
OCANISM: Clostridium botulinum
US-11-077-550-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Anthony J. Kinney
Jonathan E. Lightner
Guo-Hua Miao
PRIOR FILING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SOFTWARE: PatentIn version 3.1
SEQ ID NO 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gary M. Fader
Saverio Carl Falco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US20060026721A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Microsoft Office 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Stephen M. Allen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              177 IQN----HFASR----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : : |:
361 IAENYKI 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   195
```

```
; TYPE: PRT
; ORGANISM: Clostridium botulinum
US-11-077-550-175
                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               원
                                                                                                                                                              ò
                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                    23;
                                                            119
                                                                                                                                                                  301 DRLNKVLVCISDPNININIYKNKFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 360
                                                                                                                                                                                                                                             -----FCPEYVSVFNNVQENK-GASIFNRR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      449 IGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGT 502
                                                                                                                                       120 HFOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGORAF----MN 173
                                                                                                                                                                                                                                                                                                225 VQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                          177 IQN----HFASR------QMK 194
                                                                                                                                                                                                                                                                                                                                                                                  285 LTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           405 KIEPVVLPLL-----WFEQSGAMGGEPLNTF-----YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                    174 RTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG 224
                                                                                               14 IDNNNIIMMEPPFARGTGRY-YKAFKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCE 72
                                                          73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 18.7%; Pred. No. 3.3;
Matches 91; Conservative 67; Mismatches 146; Indels 183; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Wayne, Jonathan .
TITLE OF INVENTION: Recombinant Toxin Fragments
FILE REFERENCE: 1581.0130004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/11/077,550
CURRENT FILING DATE: 2005-03-11
PRIOR FLING DATE: 2005-03-11
PRIOR PLING DATE: 2002-09-12
PRIOR PLING DATE: 2002-09-12
PRIOR PLING DATE: 1999-02-23
PRIOR APPLICATION NUMBER: PCT/GB97/02273
PRIOR APPLICATION NUMBER: PCT/GB97/02273
PRIOR PILING DATE: 1997-08-22
PRIOR PILING DATE: 1996-12-27
PRIOR PILING DATE: 1996-12-27
PRIOR PILING DATE: 1996-12-27
PRIOR PILING DATE: 1996-12-37
PRIOR PILING DATE: 1996-12-37
PRIOR PILING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SOFTWARR: Parentin version 3.1
LENGTH: 860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 175, Application US/11077550
Publication No. US20050244435A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Shone, Clifford Charles APPLICANT: Quinn, Conrad Padraig APPLICANT: Foster, Keith Alan APPLICANT: Chaddock, John APPLICANT: Marks, Philip APPLICANT: Sutton, J. Mark APPLICANT: Stancombe, Patrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :: |:
361 IAENYKI 367
                                                                                                                                                                                                                                                                                                                                                                                                                         195
                                                                                                                                                                          g
                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    슝
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                         ò
```

```
301 DRLNKVLVCISDPNININIYKNKFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 360
                                                                                                                                       73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL-- 119
                                                                                                                                                                                                                                                                        120 HFQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN 173
                                                                                                                                                                                                                                                                                                           174 RIVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                   : : : : : | : | : | : | 131 TNIASVT-----VNKLISNPGEVERKKGIFANLIIFGPGPVLNENE----TIDIG 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          225 VONFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                177 IQN----HFASR------QMK 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  285 LTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----FCPEYVSVFNNVQENK-GASIFNRR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KIEPVVLPLL-----WFEQSGAMGGEPLNTF-----YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    449 LGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKRAIQAYSESLMSPAAKGT 502
                                                                                                                                                                                                      14 IDNNNIIMMEPPPARGTGRY-YKAFKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCE
                                                                         Gaps
Query Match 3.3%; Score 89.5; DB 7; Length 860; Best Local Similarity 18.7%; Pred. No. 3.3; Matches 91; Conservative 67; Mismatches 146; Indels 183;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION
GENERAL INFORMATION
GENERAL INFORMATION
CONTRACT CHARLES
APPLICANT: Shone, Clifford Charles
APPLICANT: FOSTER, Keith Alan
APPLICANT: Caddock, John
APPLICANT: Sutton, J. Mark
APPLICANT: Stancombe, Patrick
APPLICANT: Stancombe, Patrick
APPLICANT: Wayne, Jonathan
TITLE OF INVENTION: Recombinant Toxin Fragments
FILE REFREENCE: 1581.0130004
CURRENT APPLICATION NUMBER: US/11/077,550
CURRENT FILING DATE: 2005-03-11
FRIOR APPLICATION NUMBER: 10/241,596
FRIOR PRILING DATE: 1999-02-23
FRIOR PELLOR DATE: 1999-02-23
FRIOR PELLOR DATE: 1999-02-23
FRIOR PELLOR DATE: 1999-02-23
FRIOR APPLICATION NUMBER: 09/782,893
FRIOR PELLING DATE: 1996-12-27
FRIOR APPLICATION NUMBER: GB9625996.5
FRIOR APPLICATION NUMBER: GB9625996.5
FRIOR APPLICATION NUMBER: GB9625996.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 94, Application US/11077550 Publication No. US20050244435A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : : |:
361 IAENYKI 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       405
```

```
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ਨ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                23;
                                                                                                                                                                                                                                                                                           119
                                                                                                                                                                                                                                                                                                                                                                         120 HPQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN 173
                                                                                                                                                                                                                                                                                                                                                                                                                      132
                                                                                                                                                                                                                                                                                                                                                                                                                                                            174 RTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : : : : | |: | : | : | 133 TNIASVT------VNKLISNPGEVERKKGIFANLIIFGPGPVLNENE----TIDIG 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         285 LTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -----FCPEYVSVFNNVQENK-GASIFNRR 220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---EGFGGIM-----QMK 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                405 KIEPVVLPLL-----WFEQSGAMGGEPLNTF------YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     449 LGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKRAIQAYSESLMSPAAKGT 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             303 DRLMKVLVCISDPNININIYKNKFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 362
                                                                                                                                                                                                                                                                                                                                   74
                                                                                                                                                                                                                                                                                                                                                                                                      73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL--
                                                                                                                                                                                                                                                                                                                 16 IDNNNIIMMEPPPARGTGRY-YKAFKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCE
                                                                                                                                                                                            Query Match
3.3%; Score 89.5; DB 7; Length 862;
Best Local Similarity 18.7%; Pred. No. 3.3;
Matches 91; Conservative 67; Mismatches 146; Indels 183; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     221 GYF--SDPAL--IL-----MHELIHVLHGLYGI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PPLICANT: Wayne, Jonathan
ITLE OF INVENTION: Recombinant Toxin Fragments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/11/077,550
CURRENT FILING DATE: 2005-03-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2002-09-12
PRIOR APPLICATION NUMBER: 09/255,829
PRIOR FILING DATE: 1999-02-23
PRIOR APPLICATION NUMBER: PCT/GB97/02273
PRIOR FILING DATE: 1997-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F11-077-550-171
Sequence 171, Application US/11077550
Publication No. US20050244435A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 10/241,596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Shone, Clifford Charles
APPLICANT: Quinn, Conrad Padraig
APPLICANT: Foster, Keith Alan
APPLICANT: Chaddock, John
                                                                                                         ; TYPE: PRT
; ORGANISM: Clostridium botulinum
US-11-077-550-94
PRIOR FILING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SOFTWARE: Patentin version 3.1
SEQ ID NO 94
LENGTH: 862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sutton, J. Mark
Stancombe, Patrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 1581.0130004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Marks, Philip
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            179 ION----HFASR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : : |:
363 IAENYKI 369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                              쉽
                                                                                                                                                                                                                                                                                      ઠ
```

```
173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                73 VNPSEILKGEKPVVRERGPYVYREFRHKANI----TF----NDNDTVSFVEHRSL-- 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          131 TNIASVT------VNKLISNPGEVERKKGIFANLIIFGPGPVLNENE----TIDIG 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 DRLMKVLVCISDPNININIYKNKFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   225 VONFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----FCPEYVSVFNNVQENK-GASIFNRR 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  405 KIEPVVLPLL-----WFEQSGAMGGEPLNTF-----YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        243 KVDD--LPIVPNEKKFFMQSTDAIQAEELYTFGGQDPSIITPSTDKSIYDKVLQNFRGIV 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    449 LGLGGLLLLUVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEA1QAYSESLMSPAAKGT 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  285 LIYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14 IDNNNIIMMEPPPARGTGRY-YKAFKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 YYDPDYLMTNDKKNIFLQTMIKLPNRI--KSKPLGEKLLEMIINGIPYLGDRRVPLEEFN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120 HFOPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGORAF----MM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    174 RIVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels 183;
                                                                                                                                                                                                                                                                                                                                                                                                                    DB 7; Length 862;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         177 ION----HFASR------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         219 GYF--SDPAL---IL------MHELIHVLHGLYGI----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67; Mismatches 146;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Wayne, Jonathan
TITLE OF INVENTION: Recombinant Toxin Fragments
FILE REFERENCE: 1581.0130004
CURRENT APPLICATION NUMBER: US/11/077,550
CURRENT FILING DATE: 2005-03-11
                                                                                                                                                                                                                                                                                                                                                                                                                 3.3%; Score 89.5; 18.7%; Pred. No. 3.
PRIOR APPLICATION NUMBER: Usg. vc, vc, vc, remained by the prior Filing Dare: 1996-12-27
PRIOR PILING DARE: 1996-12-13
PRIOR RELING DARE: 1996-12-13
PRIOR PELING DARE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SOFTWARE: Patentin version 3.1
SEQ ID NO 171
LENGTH: 862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 102, Application US/11077550 Publication No. US20050244435A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 10/241,596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Shone, Clifford Charles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Quinn, Conrad Padraig
Foster, Keith Alan
Chaddock, John
Marks, Philip
                                                                                                                                                                                                                                                                                                     ; ORGANISM: Clostridium botulinum US-11-077-550-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sutton, J. Mark
Stancombe, Patrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361 IAENYKI 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 91; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       195 -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
US-11-077-550-102
```

```
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                              23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       307 DRLNKVLVCISDPNININIYKNKFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETN 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL-- 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120 HFQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           174 RTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13.7 TNIASVT-----VNKLISNPGEVERKKGIFANLIIFGPGPVLNENE----TIDIG 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            225 VONFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGOMWAPFWTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           183 IQN----HFASR-----QMK 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     285 LTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 405 KIEPVVLPLL-----WPEQSGAMGGEPLNTR------YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 249 KVDD--LPIVPNEKKFFMQSTDAIQAEELYTFGGQDPSIITPSTDKSIYDKVLQNFRGIV 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 IDNNNIIMMEPPFARGTGRY-YKAFKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      225 GYP--SDPAL---IL-------MHELIHVLHGLYGI--------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             449 LGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGT
                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 3.3%; Score 89.5; DB 7; Length 864;
Best Local Similarity 18.7%; Pred. No. 3.3;
Matches 91; Conservative 67; Mismatches 146; Indels 183; Gaps
PRIOR APPLICATION NUMBER: 09/255,829
PRIOR FILING DATE: 1999-02-23
PRIOR FILING DATE: 1999-02-23
PRIOR FILING DATE: 1997-08-22
PRIOR PRILING DATE: 1997-08-22
PRIOR FILING DATE: 1996-12-27
PRIOR FILING DATE: 1996-12-27
PRIOR FILING DATE: 1996-12-13
PRIOR FILING DATE: 1996-12-13
PRIOR FILING DATE: 1996-12-13
PRIOR FILING DATE: 1996-12-13
PRIOR FILING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SOFTWARE: PATENTING DATE: 1996-08-23
NUMBER OF SEQ ID NOS: 179
SEQ ID NO 102
LENGTH: 864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Shone, Clifford Charles
APPLICANT: Quinn, Conrad Padraig
APPLICANT: Foster, Keith Alan
APPLICANT: Chaddock, John
APPLICANT: Marks, Philip
APPLICANT: Stancombe, Patrick
APPLICANT: Stancombe, Patrick
APPLICANT: Wayne, Jonathan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 100, Application US/11077550
Publication No. US20050244435A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                              ORGANISM: Clostridium botulinum US-11-077-550-102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : : |:
367 IAENYKI 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-11-077-550-100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
```

```
| :|: : ||| : :|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : ::|| | : :|| | : ::|| | : :|| | : :|| | : :|| | : ::|| | : ::|| | : ::|| | : :||
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   405 KIEPVVLPLL-----WFEQSGAMGGEPLNTF------YTQLVLMPQVLQYVQYVL 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       449 LGLGGLLLLVP-----VIYQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGT 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73 VNPSEILKGEKPVVRERGPYVYREFRHKANI-----TF----NDNDTVSFVEHRSL-- 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 174 RTVGEILWGYEDPFVNFINKYLPDMFPIKGKFGLFVE------MNNSDSGLFTVFTG 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  285 LTYHDSGVFEGIPTYRFTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSH 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      345 PHFYNADPVLSEAVLGLNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             225 VQNFSKIHLVDRWNGLSKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMK 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 IDNNNIIMMEPPFARGTGRY-YKAFKITDRIWIIPBRYTFGYKPEDFNKSSGIFNRDVCE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -----FCPEYVSVFNNVQENK-GASIFNRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120 HPQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKL--MMTLGLATLGQRAF----MN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   183 IQN----HFASR------QMK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 3.3%; Score 89.5; DB 7; Length 865; Best Local Similarity 18.7%; Pred. No. 3.3; Matches 91; Conservative 67; Mismatches 146; Indels 183; Gaps
FILE REFERENCE: 1581.0130004
CURRENT APPLICATION NUMBER: US/11/077,550
CURRENT PILING DATE: 2005-03-11
PRIOR APPLICATION NUMBER: 09/255,829
PRIOR FILING DATE: 1999-02-23
PRIOR FILING DATE: 1999-02-23
PRIOR FILING DATE: 1997-08-22
PRIOR PILING DATE: 1997-08-22
PRIOR PILING DATE: 1997-08-22
PRIOR PILING DATE: 1997-08-22
PRIOR PILING DATE: 1996-12-7
PRIOR PILING DATE: 1996-12-7
PRIOR PILING DATE: 1996-12-7
PRIOR PILING DATE: 1996-12-13
PRIOR PILING DATE: 1996-08-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Search completed: February 23, 2006, 12:51:52
Job time : 12.5 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Clostridium botulinum US-11-077-550-100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            503 VLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  :: |:
367 IAENYKI 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                201
```

CQ868669 Sequence
AF467889 Sus scrof
BC093732 Homo sapi
AF019384 Bos cauru
AY283277 Oryctolag
AY428553 Tupaia be
AX763178 Sequence
AF15445 Homo sapi
AX892789 Synthetic
BT008093 Synthetic

Sequence Homo sapi

Oryctolag

BC080647 Homo sapi AR091979 Sequence AR112114 Sequence AR149156 Sequence

AR261646 Sequence AR474634 Sequence AR635204 Sequence Z22555 H. sapiens e

AF071495 Rattus no AY682847 Rattus no

AR222273 Sequence

Sequence:

6

Searched:

Database

```
241 ACTIGICIGICIACTICITICGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCGGCGCACGCGGAGACATGGGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCGCATAGACCCGAGCAGCCTTCGGGATGTGGAAGGAGAAGACCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCGTCTTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 6; Length 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kozarsky, K., Rigotti, A. and Krieger, M.
Methods for modulation of cholesterol transport
Patent: US 5962322-A 3 05-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
100.0%; Score 1785;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1785; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="unknown"
/wol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                    AR078245 1785 bp
Sequence 3 from patent US 5962322.
AR078245
                                                                                                                                                                                                                                                                                                                                                                                            ALIGNMENTS
                                                                                                    AR261646
AR474634
AR635204
HSCLA1GNA
                                                                                                                                                                         AF467889
BC093732
                                                                                                                                                                                                                                                                                             BT008093
                                                                                                                                                                                                                                                                                                                       CQ842792
AK124112
                                                                                                                                                                                                  AF019384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
1. .1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GI:10004991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unclassified.
1 (bases 1 to 1785)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AR078245.1

      6
      6
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7
      7

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown.
                                                                                                                                                                      11117.4
11115.8
11013.6
10073.6
966.6
947.6
947.6
947.6
947.6
947.6
946.8
866.2
                                    1215.2
1144.2
1142.6
1142.6
1142.6
1141.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
TITLE
JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1
AR078245
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
 ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AX305450 Sequence
U37799 Mus musculu
CQ86866 Sequence
BC004656 Mus muscu
AX419948 Sequence
CT010222 Mus muscu
D89655 Rattus norv
BC076504 Rattus no
AX015193 Rattus norv
AR091980 Sequence
AR112115 Sequence
AR114157 Sequence
AR149157 Sequence
AR149157 Sequence
AR149157 Sequence
                                                                                     2006, 17:38:47; Search time 8999.94 Seconds (without alignments) 11274.030 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AR078245 Sequence
AR195310 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                       1785
1 CCGTCTCCTTCAGGTCCTGA.....TCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Description
         5.1.7
Biocceleration Ltd.
                                                                                                                                                                                                                                      5883141 seqs, 28421725653 residues
                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
           GenCore version (c) 1993 - 2006
                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                              sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AR195310
AX305450
MMU37799
CQ868666
BC004656
AX419948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AB002151
AY451993
RNU76205
AR091980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AR112115
AR149157
AR078244
AR195308
                                                                                                                                                                                            IDENTITY NUC
Gapop 10.0', Gapext 1.0
                                                             nucleic search, using
                                                                                                                                                                                                                                                                                          seq length: 0
seq length: 200000000
                                                                                                                                          US-08-765-108-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95 sts: *

95 sts: *

95 un: *

95 vi: *

95 htg: *
                                                                                                                                                                                                                                                                                                                                                                                                   1785
1785
1785
2512
1607
1530
2392
2408
2401
                                                                                        February 23,
                       Copyright
                                                                                                                                                                                                                                                                                                                                                                                        GenEmbl:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0
100.0
100.0
100.0
90.0
85.7
                                                                                                                                          Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1530
1460.6
1459.4
1459.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1426
1396.2
1396.2
1396.2
1369.8
                                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1607
                                                                                                                                                                                                                                                                                         Minimum DB
Maximum DB
                                                             OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                           ..
```

PAT 31-AUG-2000

ö

ó

Result No.

110 110 110 110 110 110 110 110 110

1381   CGCAGTATGTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCCAC   1440		AX305450  AX305450  1785 bp  DNA  linear  PAT 11-DEC-2001  TION  Sequence 201 from Patent W00188188.  NAX305450.  NAX305450.1 GI:17644972  DS  Was musculus  Rukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  Mammalia; Butheria; Buarchontoglires; Glires; Rodentia;  Sciurognathi; Muroidea; Murinae; Mus.  NOS  NOS  NOS  NOS  NOS  NOS  NOS  NO	ORS Ishikawa, K., Asai, S., Takahashi, Y., Nagata, T. and Ishii, Y. E. Method for examining ischemic conditions NAL Parent: WO 0188188-A 201 22-NOV-2001; School Juridical Person Nihon University (JP) ES Location/Qualifiers ource //organism="Mus musculus" //mol type="mussigned DNA" //db_xref="taxon:10090"	y Match  Local Similarity 100.0%; Pred. No. 0;  Local Similarity 100.0%; Pred. No. 0;  hes 1785; Conservative 0; Mismatches 0; Indels 0; Gaps  1 CCGTCTCTTCAGGTCCTGAGCCCCGAGAGCCCTTCCGCGCACGCGGACATGGGCGGCA 60	61 GCTCCAGGGCGCTGGGTGGCTTGGGGTTGGGGCCCTGGGGCTGCTG	181 TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT 240
8 8 8 8 8 8 8	6 6 6 6 6	RESULT 3 AX305450 LOCUS DEPINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM	AUTHORS TITLE JOURNAL FEATURES SOUR	Query Me Best Loc Matches Qy Db	%	ð á
			······································			
ACTTGTCTGTCTACTTCTTCGAAGTGGTCAAACGAGGTCCTCAACGGCCAGAAGC CAGTAGTCCGGGAGCCGTGTGTCTACAGGGAGTTCTCAAAGGTCCTCAACGCCAGAAGC CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCTAGACAAAGGTCAACATCA CAGTAGTCCGGAGCCTGGACCCTTCGTGGAGAACCGCAGCCTCATTTCCAGCCTCA CCTTCAATGACAACGGAGCCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG CCTTCAATGACAACGGACCCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG CCTTCAATGACAACGGACACCGTGTCATTGTACTGCCTCATTTCCAGCCTG ACAAGTCGCATGGCTCAGAGTGACTACATTGTACTGCCTAACATTTTGGTCCTGGGGG CTTCAATGATGAAGAGAGAGACCTACATTGTACTGCCTAACATCTTGGTCCTGGGGG CCTCCAATGATGAAGAGAGAGCAACCTACATTGTACTGCCTAACATCTTGGTCCTGGGGG CCTCCAATGAAGAGAGAGCAAGCCTGCAGATGATTGTACTACTACTTGGTCCTTGGGCGGG CCTCCAATGAACGAAGCCAACCTACATTGTACTACTACTAGACCTTGGCCTGGGGG CCTCCAATGAACGAAGCCAACCTACATTGTACTACTACATAGACCTTGGCCCTGG	481 GCTCGATATTGATGAGAGAGACCTGTGAGCCTGAAGCTGATGATGATGACCTTGGCGCTGG 540 541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG 600 541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAATCCTGTGGGGCTATG 600 541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAATCCTGTGGGGCTATG 600 601 ACGATCCCTTGGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGCCA 660 601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCATAAAGGGCA 660 601 ACGATCCCTTCGTGCATTTTCTCAACACCTCCCAGACATGCTTCCATAAAGGGCA 660 601 ACGATCCCTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGCTTCACGG 720 661 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTTCACGG 720	12   GCGTCCAGAATTTCAGCAGCATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG	AGCTGACCTACAACGAATCAAGGTGTTTGAAGGCATTCCCACGTATCGCTTTCACGGCCC CCGATACTCTGTTTGCCAACGGGTCGTTTGAAGGCATTCCCACGTATCGCTTTCACGGCCC CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCGACGAAGGCTTCTGCCCATGCC [	1081   ACCCCCACTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTTGGTCTGGTCTGACCCTA   1140		

음 &

	1021   GAGAGTCTGGCATTCAGANTGTCAGACCTGCAGGTTTGGTGGCCCTCTGTTTCTCTCCCCCCCC	RESULT 5 CQ866666 2496 bp DNA linear PAT 13-SEP-2004 LOCUS L
/translation="MGGSSRARWVALGLGALGLLPAALGVVMILMVPSLIKQQULKNV RIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPNEVLMGQKPVVRERGPYYTREFROKVM RIPPNDMPYSFVENRSLHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMT LALVTMGQRAFMRFTVGEILMGYDDFYHFLNTVLDPMLPIKGRGLFVGNMUSNGGV FTVPTGVQNFSRHILVDKNMGLSILDVHTSEQCUMINGTSGQMARPFMPESSLEFFS PEACRSMKLTYNESRVFEGIPTYRPTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTC RFGAPLFLSHPFYNADAYLSATAGLNPRREBLFLDTHPVTGIPMVGSVKMQLSL XIKSVKGIGQTGKIEPVYLDLAFFSGGAMGGKPLSTFTTQLVLMPQVLHYAQYVLLG LGGILLLLVPIICQLRSQEKCPLFWSGSKKGSQDKRAIGAYLGYTANGVALAG	100.04;   Score 1785;   DB 9;   Length 1785;	GCGTCCAGAATTTCAGCAGGATCCATCAGGGACAAATGGAACGGGCTCAGCAAGATGGAACGACTCAGCAAGATGGAACGACTCAGCAAGATGGAACGACTCAGCAAGATGGAACGACAAGATGGAACTCGGCAAGATGGAACTCGGAAATTCAGCAAGATCGAAGATCGAAGATCGAAGATCGAGAATTCCAGCAAGATCGAAGATCGAAATTGGCATTCCAGGAAATTCAGCACTTCCGGGCAGATGTAACGACACTCCAGCAAGATCTTCCAGCAAGTCAAGAACTCCAGCAACTTCCAGGAACTTCCAGAACTCCAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACTCCAAGAACCCAAAGAACAACAAAAAAAA

Description   Description   Considers   Considers   Description   Desc	923 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 982 841 CCTTCATGACACCCGAATCCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900 983 CCTTCATGACACCCGAATCCTGGTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 1042 901 AGCTGACCTACAACGAATCCTGGTGAATTCTTCAGCCCGGAGGCATTCACGGTCCATGA 1042 1043 AGCTGACCTACAACGAATCCAAGAGTTTTGAAGGCATTCCCACGTTCACCGCCC 960 1043 AGCTGACTTACAACGAATCAAGAGTTTTGAAGACATTCCCACGTTCACCGCCC 1102 961 CCGATACTCGTTTGCCAACGGGTCCGTCACCCCACGAAGGCTTCTGCCCATGCC 1102 1043 AGCTGATTTGCCAACGGGTCCGTCACCCCACCGAAGGCTTCTGCCCATGCC 1102 1103 CCGATACTCTGTTTGCCAACGGGTCCGTCACCCCAACGAAGGCTTCTGCCCATGCC 1162	GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTTCTCTCCC		120	GITCIGIGAAGAIGCAGCAGAGCCICTACATCAGATCTGTCAAGGGCAICGGGGAAACAG 	1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTTGGATCGAACAGAGCGGAGCAATGGGTG 1320 	1321 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG 1380	1381 CGCAGTATGTGCTGGGGCTTCGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1440	1441 TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500 	1501 AGGAGGCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560	1561 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT 1620 	1621 GGTCAGACCACCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTCAGCGGACAGC 1680	1681 CCACCAGTGCCATGGCCTCAGCCCCCAGATGTCACACCTGTCCGCAGGCACGCAC	1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785 	99	Mus musculus scavenger receptor class s, memos r, may MGC:5988 IMAGE:3498018), complete cds. BC004656
Eukaryota; Metazoa; Chordata; Craniata, Vertebrata; Euteleoston Mammalia; Eurheria; Buarchonicoglines; Glires; Rodentia; Jorntia, D. M. and Malandro, M.S.  Novel therapeutic gpcr targets in cancer abstant: Job. 000074312. 78 02-8FP-2004; Sagres Discovery, Inc. (US) Sagres Discovery	8 8 8 8 8 8	රු යි	දු පු	<i>ਨ</i> 8	රු සි	දු පු	<u>8</u>	රු පි	S G	රු සි	& 8	රු පු	ò a	රු දි	RESUL BC004 LOCUS	ACCES
Eukaryota; Metazoa; Chordata; Craniata, Vertebrata; Euteleoston Mammalia; Eurheria; Buarchonicoglines; Glires; Rodentia; Jorntia, D. M. and Malandro, M.S.  Novel therapeutic gpcr targets in cancer abstant: Job. 000074312. 78 02-8FP-2004; Sagres Discovery, Inc. (US) Sagres Discovery																
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutel Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Mus. 1 Moris,D.W. and Malandro,M.S. Novel therapeutic gpcr targets in cancer Patent: WO 200407431-A 78 02-SEP-2004; Sagres Discovery, Inc. (US) Location/Qualiflers 1496 /Organism="Mus musculus" //ml type="unassigned DNA" //db_xref="taxon:10090"	100.0%; Score 1785; DB 6; Length 2496; 100.0%; Pred. No. 0; vative 0; Mismatches 0; Indels 0; Gaps	CGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGGGACGGGGACATGGGCGGCAACACGCGGAACATGGGCGGCGAACACCCTTCCGCGCACGGGACATGGGCGCAACAGCCCCTTCCGCGCACATGGGCGGCA	GCTCCAGGGGGGGCGCTGGGGGCTTGGGGGTTGGGGGCCCTGGGGGCTGCT	TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG	TCCGCATAGACCCGAGCAGCCTTCGGGATGTGGAAGGAGATCCCCGGTCCCTTTCT	ACTIGICIGICITACTICITICACGAGIGGCICAACGAGGCCTCCTCAACGAGAGGCCAGAAGCCAAACGAGGCCTCCTCAACGGCCAGAAGCCAAAGCGAGAAGCCAAACGAGGCCTCTCAAACGCCAGAAGCCAAAACGAGAAACGAAACGAAACGAAACGAAAACGAAAAACGAAAAACGAAAAAA	CAGIAGTECCGGGAGGGGGACCTATCTACAGGGAGTTCAGACAAAAGGTCAACATCA [	CCTTCAATGACAACGACACCGTGTCCTTCGTGAGAACCGCAGCCTCCATTTCCAGCCTG 42	ACAAGTICGCATGGCTCAGAGAGAGAGTGACTTTTGGGGAGCCCCAAGACTCTTGGGGGGGG	GCTCGATATTGATGGAGAGCAGCCTGAGCCTGAGCTGAG	TCACCATGGGCCAGCGTGCTTTTATGAACGGACAGGTTGGTGAGATCCTGTGGGGCTATG	ACGAICCETTCGTGCATTTTCTCTACACGCACTCCCAGACATGCTTCCCATAAAGGGCA	AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTTTCACGG	GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGAACAAATGGAACGGACTCAGCAAGATCG 	ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC

us-08-765-108-7.rge

```
PTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFNTPESSLEFFS
PEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTC
RFGAPLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPWNCSVKMQLSL
                                                                                                                                                                                                                                                                                                                                                                                                                                            YIKSVKGIGQTGKIEPVVLPLLWFEGSGAMGGKPLSTPYTQLVLMPQVLHYAQYVLLG
LGGLLLLVPIICQLRSQBKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQEAK
L"
                                                                                                                                                                                                                                                             /translation="MGGSSRARWVALGLGALGLLFAALGVVMILAVPSLIKQQVLKNV
RIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVN
ITFNDNDTVSFVENRSLHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                          <u>LALVIIMGQRAPMNRTVGEI LWGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGV</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  263 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGGCAGCAGGTGCTCAAGAATG 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 323 TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 ACTIGICIGICIACTICITCGAAGIGGICAACCCAAACGAGGICCICAAACGACGAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACTIGICTGTCTACTICTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                563 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              143 ccercricorricadorcerdadececedadececerrececededecerededece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       623 GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           683 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                743 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               803 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCGTCTTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 9; Length 2512;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 1785;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                                                               /gene="Scarbl"

/gene="start=1

/product="scavenger recep

/protein_id="AAH04656.1"

/db_xref="G1:1343558"

/db_xref="GeneD1:258"

/db_xref="MG1:893578"
          /db_xref="GeneID:20778"
/db_xref="MGI:893578"
1937. 1722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 100.
Matches 1785; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                            CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              · .
                                                                                                                                                                                           Strausberg, R.L., Feligold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, P.S., Wagner, L., Shemmen, C.M., Schuler, G.D.,
Klausner, R.D., Collins, P.S., Wagner, L., Shemmen, C.M., Schuler, G.D.,
Alteschul, S.F., Zeeberg, B., Buecrow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Marusina, K., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.P., Casavant, T.L.,
Scheetz, T.B., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S. S., Loquellano, N.A., Peters, G.J.,
Morkernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, B.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Ketteman, M., Madan, A., Rodrigues, S.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J., and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov Series: IRAK Plate: 9 Row: i Column: 5 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 14389422. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="Mammary tumor. C3(1)-Tag model. Infiltrating ductal carcinoma. 5 month old virgin mouse." /clone lib="NCI CGAP_Mam6" /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="synonyms: mSR-BI, CD36, SR-BI, Cla1, Cla-1, Cd3611,
SRBI, SR-B1"
                                                                                                       Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Euarchontoglires, Glires, Rodentia,
Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Direct Submission
Submitted (21-MAR-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged,
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: cgapbs-remail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002) 12477932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Web site: http://www.hgsc.bcm.tmc.edu/cdna/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /db_xref="taxon:10090"
/clone="MGC:5988 IMAGE:3498018"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Mus musculus"
/mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human and mouse cDNA sequences
                                                       Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . .2512
/gene="Scarb1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequencing Center
Center code: BCM-HGSC
                                                                                                                                                                                   (bases 1 to 2512)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (bases 1 to 2512)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .2512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONSRIM
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
CONSRIM
TITLE
JOURNAL
                                                                                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
```

8 8 8

8 6 6 6

RESULT 7 AX419948 LOCUS LOCUS LOCUS DEFINITION AX419948 . 1607 bp RNA linear PAT 18-JUN-2002 ACCESSION AX419948 VERBION VERBION KEYWORDS SOURCE Mus musculus CRGANISM Mus musculus REFERENCE Mus musculus REFERENCE AUTHORS LOCATION AT 13401, H. Dong, F. Neri, B.P. and Vener, I.T. AUTHORS LOCATION AT 18-JUN-2002 REFERENCE AUTHORS LOCATION AT 18-JUN-2002 TITLE JOURNAL PREFER TECHNOLOGIES, INC. (US) FATURES  LOCATION AT 18-JUN-2002 FRATURES  LOCATION AT 18-JUN-2002 LOCATION AT 18-JUN-2001 THE MANY TECHNOLOGIES, INC. (US) LOCATION AT 18-JUN-2002 LOCATION AT 18-JUN-2002  LOCATION AT 18-JUN-2002  REFERENCE JOURNAL PREFERENCE LOCATION AT 18-JUN-2002 LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-JUN-2002  REATURES LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-JUN-2002  LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-JUN-2002  LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-JUN-2002  LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-JUN-2002  LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-JUN-2002  LOCATION AT 18-JUN-2002  AUTHOR AVERTICATION AT 18-	Query Match  Best Local Similarity 100.0%; Score 1607; DB 6; Length 1607;  Batches 1607; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Qy 170 GCTCAAGAATGCCGGATAGACCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCC 229  Db 1 GCTCAAGAATGCTCGATAGACCGAGAGCCTGTCCTTCGGGAATGTGGAATGCC 60	230 CGTCCCTTTCTACTTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAA	121 CGGCCAGAAGCCAGTAGTCCGGGACCTGGACCCTATGTCTACAGGGAGTTCAGACAAA 350 GGTCAACATCACCTTCAATGACAACGACGCGGTGTCCTTCGTGGAGAAACGCCTCCA	241 ITTCCAGCCTGACAAGTCGCATGGCTCCAGAAGTGACTACATTGTACACCCTATACATCTTTTTTTT	Qy         530 CTTGGCGCTGGTCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCT         589	Qy         650 CATAAAGGCAAATTTGGCCTGTTTGTGGGATGAACAACTCGAATTCTGGGGTCTTCAC 709           Db         481 CATAAAGGCAAATTTGGCCTGTTTGTTGGATGAACACTCGAATTCTGGGGTCTTCAC 540           Qy         710 TGTCTTCACGGGGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACT 769           Db         541 TGTCTTCACGGGGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAATGGAACGGACT 600           Qy         770 CAGCAAGATCGATTATTGGCATTCAGAGGATCCATCTGGTGGACAATGGGAACGGACT 600           Qy         770 CAGCAAGATCGATTATTGGCATTCAGAGCAGTGAACATGATCAATGGGACTTCCGGGCA 829           Db         601 CAGCAAGATCGATTATTGGCATTCAGAGCAGTGAACATGATCAATGGGACTTCCGGGCA 660
121   GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACTCAGCAAGATCG	1081 ACCCCACTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140 1223 ACCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1282 1141 ACCCAAAGGAGATTCCTTGTTCCTAGAACATCCGTCACTGGGATCCCATGAACT 1200 1283 ACCCAAAGGAGATTCCTTGTTCCTAGACATCCGTCACTGGGATCCCATGAACT 1200 1283 ACCCAAAGGAGATTCCTTGTTCCTAGACATCCGTCACTGGGATCCCATGAACT 1342		GGAAGATCGAGCCAGTAGTTCTGCCGTTGTGATCGAACAGAGCGAATGGGTG GCAAGCCCCTGAGCAGGTCTTCTACACGGGTGCTGATGGGTG GCAAGCCCCTGAGCAGGTTCTTCACAGGCTGGTGCTGATGCCCCAGGTTCTTCACTACG GCAAGCCCCTGAGCAGGTGCTGGTGCTGATGCCCCAGGTTCTTCACTACG CGCAGTATGTGCTGGTGGTGGTGGTGGTGGTGGTGCCCATCATCTGCCACACTTCTGCCCAAC	TGCGCAGCCAGGAAATGCTTTTTGTTTTGAGTGGTAAAAAAGGGCTCCCAGCATCATCATCATCTTTTGAGTGGTAGTAAAAAGGGCTCCCAGGATATTGGCAGGATAGTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATATGCGCAGCAGCAGGAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAGGGGTCCCAGGATATTGGAGTAGTAAAAAGGGGTCCCAGGATATTGGAGTAGTAAAAAAGGGGTCCCAGGATA	1501 AGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAGGGGGTGC	1621   GGTCAGCCAGCCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC   1680

음 장

8 6 8 6 8 6 8 6 8 6 8 6 8

ઠે 원 ठ 셤 ð 셤 ઠે 셤 ઢ 셤 ò g ò d ò 셤 ò

```
Myamoto,K.

Direct Submission
Submitted (0.2 DEC-1996) Kaoru Miyamoto, Institute for molecular and Submitted (0.2 DEC-1996) Kaoru Miyamoto, Institute for molecular and cellular regulation, gumma univ., Biosignal research center; Shouwa-machi,3-39-15, Maebashi, Gunma, 371, Japan (E-mail:kmiyamotefinsra.fukui- med.ac.jp, Tel:81-272-20-8878, Fax:81-272-20-8878)

Fax:81-272-20-8878)
Location/Qualifiers

1. .2392
                                                                                                                                                                                                                                                                                                                                                                                         1201 GGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGA 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1321 CTTCACTACGCGCAGTATGTGCTGGCTGGAGGCCTCCTGTTGCTGGTGCCCATC 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1441 TCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACAGCTGCCAAG 1500
                               1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1261 GCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTT 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAG 1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         D89655 2392 bp mRNA linear ROD 19-NOV-2004
Rattus norvegicus mRNA for scavenger receptor class B, complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D89655.
D89655.1 GI:1752796
scavenger receptor class B.
Rattus norvegicus (Norway rat)
Rattus norvegicus
Rukaryota: Metacoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                        CCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGCCATC
                                                                                                                                                                                                                                                                                                      cccargaacrerrergaagargcagcreagcrercercaaarcrercaaggccarc
                                                              1021 TTTCTCTCCCCCCCCCCCTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGT
                                                                                                                                                                                                                                                                                                                                                            GGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTCACTACGCGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Miyamoto, K., Mizutani, T. and Numata, Y. cDNA cloning of rat scavenger receptor class Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Rattus norvegicus"
/mol_type="mRNA"
/strain="Wistar"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1501 GGCACGGTGCTGCAAGAAGCCAAGCTATAG 1530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGCACGGTGCTGCAAGAAGCCAAGCTATAG 1580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /tissue_type="ovary"
/dev_stage="21 days old"
121._.1650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:10116"
/sex="female"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (bases 1 to 2392)
                            101
                                                                                                                                                                                            1081
                                                                                                                                                                                                                                                                                                      1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1491
                                                                                                                                      1131
                                                                                                                                                                                                                                               1191
                                                                                                                                                                                                                                                                                                                                                            1251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
D89655
                                                                                                                                                                                 셤
                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                          요
                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               reccenteccada de recentrada de reconstrución de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra d
                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            350
                                                                                                                                                                  110
                                                                                                                                                                                                                                                                                                                                                                                         230
                                                                                                                                                                                                                                                                                                                                                                                                                  CTCAAGAATGTCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGAGTCCCC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               650
                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTCCCTTTCTACTTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GECCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTC
                                                                                                                                                                                                                      Aradecedecaderecadedecedeceredecerradederradecedecederece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCCCTTTCTACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCAACATCACCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCCTGGGGGGCTCGATATTGATGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTCCTGGGGGGCTCGATATTGATGGAGGGAGCCTGTGAGCTGAAGCTGATGATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTGGCGCTGGTCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATAAAGGGCAAATTTGGCCTGTTTGTTGGGATGAACAACACGAATTCTGGGGTCTTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATTCAATGGGACTTCCGGGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATCAATGAATCAATGGGACTTCCGGGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            831 ATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGTGGGCACCCTTCATGACACCCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        841 AGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCAACATCACCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATAAAGGCAAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACT
                                                                                                                                                                                                                                                                                                                                                                                      CTCAAGAATGTCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCC
                                                                                                            Gaps
                                                                                                            ö
                                                         9; Length 1530;
                                                                                                            Indels
                                                                                                            ö
                                                      8
                                                   85.7%; Score 1530; I
ilarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                                               Best Local Similarity
Matches 1530; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               961
                                                                                                                                                                                                                                                                            111
                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                   171
                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         531
                                                      Query Match
ORIGIN
```

g

g

8

g

δ 유 ò 셤 à 셤 à g 8 8

ò

910 900

```
BC076504
Rattus norvegicus scavenger receptor class B, member 1, mRNA (cDNA clone MGC:91637 IMAGB:7099863), complete cds.
BC076504
BC076504.1 GI:49904284
RGC18676504.1 GI:49904284
Rattus norvegicus (Norway rat)
ACTATTGGCATTGGCAACAGTGCAACATGATGGTACTGCCGGGCAGATGTGGGCAC
                                                                                CATTCATGACACCCGAATCCTCACTGGAATTCTTCAGCCCAGAAGCCTGCAGATCTATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1331 GGAAGATCGAGCAGTAGTCCTGCCATTGCTGTGGTTCGAACAGAGCGGGATGATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAAGACCCTGAAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                       AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                               1091 GCGAGTCCGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                         ACCCCCACTTTTACAACGCCGACCCTGTGTCTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                             1151 AGCCCCACTTCTACAATGCTGACCCGTGTCTGAAGCTGTTCTTGGTCTGAACCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1271 GTTCCGTGAAGATGCAGCTGAGTCTGTACATCAAATCCGTCAAGGGCGTCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGCAGTATGTGCTGGGGGCTTGGAGGCCTCCTGCTTCTGGTGCCCCATCATTACCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCGCAGCCAGGAGAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTCAGACCAGCCACCCAGCCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                            CCTTCATGACACCCGGATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                               CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                         1031 CCGATACTTTGTTTGCCAACGGGTCCGTCTACCCACTAATGAAGGCTTCTGCCCGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1211 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCACCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGCAAGAAGCCAAGCTGTAGGGCCCAGAAGACACCACGAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1691 dercadaccadecedecedereceracecedererrereadaacerereadecadea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCGCCAGTGCCACGTCCTGAGCCCCCAGATGTCACACTGTCCCACGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGT
                                                                                                911
                                                                                                                                     106
                                                                                                                                                                         971
                                                                                                                                                                                                                 961
                                                                                                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                     1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1631
                      851
                                                            841
                                                                                                                                                                                                                                                                                                                                                                         1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
BC076504
LOCUS
                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                            원
                                                                                                                                   à
                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                          8
                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
              /product="scavenger receptor class B"
/product="scavenger receptor class B"
/product="max44004.1"
/db_xref="g1:1752797"
/db_xref="g1:1752797"
/db_xref="g1:1752797"
/reanslation="MGVSRRRWVALGLGVLGLLCAALGVIMILMVPSLIKOGVLKNV
/reanslation="MGVSRRRWWALGLGVLGALGVIMILMVPSLIKOGVLKNV
/reanslation="MGVSRRRWWASIPVIMPLICAGGWMADERFRERCKVN
/reanslation="MGVSRRRWRITINGTLMGYBOPPVIMPPIKKRFGLFVCMMBDKFFTSLKLLMT
/GLVTMGGRAFMMRTVGEILMGYEDPFVNFLSKYFPDNFPIKKRFGLFVGMNDSSGGV
/rVFTGVQNPSKIHLVDKWNGLSEVNFWHSBCCNMINGTAGQWMAPPMTPESSLEFFS
/FRVFTGVQNPSKIHLVDKWNGLSEVNFGHPTLFANGSVYPPNBGFCFCRESGIGNVSTC
/rGSVKGWCQTGKIEDVVLPLLMPDVSGHMGGRTLNFFYTQLVLMPQVLHYAQVVLLG
/rGGLLLLVVIIYQLKSQEKKFLFWSGSKKGSQDKEAMQAYSESLMSPAAKGTVLQEAK
                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                               130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG 780
                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGTCCCCTTCAGGTCCTGAGCGACTCTCGGCCGCGCACGCGGACATGGGCGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        311 ACTIGICALTACTICITAGAGGIGGICAACCCCAGAGGICCTAAAIGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 491 ACAGGTCCCAGGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCCTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGCAGTGATGATGAGGAGAGGACCACAAGCCTGAAGCTGCTAAATGACCTTGAGGGTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCACCATGGGCCAGCGTGTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGTCCAGAATTTCAGCAAGATCCATCTGGTGGATAAGTGGAACGCCTCAGCGAGGTCA
                                                                                                                                                                                                                                                                                                                                                                                       CCGTCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTIGICIGICIACTICITICGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCGCATAGACCCCAGCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGTAGTCCGGGAGCGCGGACCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                              2392;
                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                          81.8%; Score 1460.6; DB 9; Length 90.2%; Pred. No. 7e-309; ive 0; Mismatches 169; Indels
                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 1562; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      371
                                                                                                                                                                                                                                                                                                                                                                                         Н
                                                                                                                                                                                                                                                                                                                                                                                                                               71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                        RIGIN
```

1560

1630 1620 1690 1680

ద

ò 셤 ð

1200

셤

ઠે 셤 δ 셤 δ 셤 δ g ઠ d ò ద ઠે 요 δ 셤 ठे ద ò 셤 Š

ò

1260 1330 1390 1380 1450 1440 1510 1500 1570

1030

960

```
RIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPSEVLNGCKPVYRERGPYYYREFRQKVN
ITFNDNDTVSYIENRSLRFOPDRSQGSESDYIVLPNILVLGGAVMMEDKFTSLKLLMT
IGLYTMCQDAFPRNRTYGEILMCYEDPFYNFLSKFPDMFPIKKGKFGLFVGMNDSSGY
PTVFTGVQNFSKIHLVDKWNLLSEVNYWHSSQCNMINGTAGOWWAPPRTPESSLEFFE
PEACREMKLTYQESRVPEGIPFYRFTARDTLFANGSVYPPNEGFCPCRESGIONVSTC
RFGAPLFLSQPHFYNADPVLSEAVLGINPDFKEHSLFLDIHFVTGIPMNCSVRWQLSI
                                                                                                                                                                                               /product="CD36 antigen (collagen type I receptor,
thrombospondin receptor)-like 1"
/dp.ortein_id="AAA76504.1"
/db.xref="G1:49904288"
/db.xref="GeneID:25073"
/db.xref="RAPAP:36635"
/db.xref="RAPAP:36635"
/tb.xref="RAPAP:3623"
/translation="MGVSSRARWVALGLGGVLGLLCAALGVIMILMVPSLIKQQVLKNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YIKSVKGVGÇTGKI EPVVLPLLMFEQSGMMGGKTLNTFYTQLVLMPQVLHYAQYVLLG
LGGLLLLVPI I YQLRSQEKCPLFWSGSKKGSQDKBAMQAYSESLMSPAAKGTVLQEAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            661 AATTIGGCCIGITIGIIGGGAIGAACAACICGAATICIGGGGICITCACGTCTICACGG 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 ACTIGICIGICIACTICITICGAAGIGGICAACCCAAACGAGGICCTCAACGCCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  362 CAGTAGTCCGGGAGCGCGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        482 ACAGGICCCAGGGCICAGAGAGAGTGACTACATTGTACTGCCTAACATCCTGGTCCTGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   602 TCACCATGGGCCAGGGGCTTTATGAACGGCAGGTTGGTGAGATCCTGTGGGGGTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62 ccercecerreagerecreaececaeceaecreregececececeaeaearegecerea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             122 gerecadedeacecradedeargecerradedeacradedearreradedergeradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacradedeacrade
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                242 TCCGCATAGACCCCAGCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361 CCTTCAATGACAACGACGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   422 cerreaargacaargacacgrererracaragagaaccgaagcerrecrrecag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         542 GGGCAGTGATGATGGAGAGAGAGCCCACAAGCCTGAAGCTGCTAATGACCTTGGGGTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 TCCGCATAGACCCGAGCCGGCTGTCCTTCGGGATGTGGAAGGAGATCCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         302 ACTTGTCCGTCTACTTCTTCGAGGTGGTCAACCCCAGCGAGGTCCTAAATGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301 CAGTAGTCCGGCAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCGTCTTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  81.8%; Score 1459.4; DB 9; Length 2409; 90.6%; Pred. No. 1.3e-308; ive 0; Mismatches 161; Indels 0;
                                        xref="RGD:2302"
                                                                                112. .1641
/gene="Scarb1"
                                                                                                                                                                         codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 90.6
Matches 1556; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                    CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                      1. (Dages 1 to 2400)
Strausberg 1.U., Feingold, E.A., Grouse, D.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buttow, K.H., Schaefer, C.F., Bhat, M.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Haieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleron, M., Soares, M. B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Abramson, R.D., Mullahy, S.J., Bosk, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunarane, P.H., Richards, S.,
Worley, K. C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Ketteman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Charles, A., All analysis of more than 15,000 full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov Series: IRAK Plate: 175 Row: f Column: 9
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 13928729.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: nisc_mgc@nhgil.nih.gov
Akhter, R., Ayele, K., Beckstrom-Sternberg, S.M., Benjamin, B.,
Blakesley, R., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,
Blakesley, N. Bouffard, G.G., Breen, K., Gupca, J., Haghighi, P.,
Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Laric, P., Legaspi, R.,
Maduro, Q.L., Mastello, C., Maskeri, B., Mastrian, S.D., McCloskey, J. C.,
McDowell, J., Pearson, R., Stantripop, S., Thomas, P.J., Touchman, J.W.,
Tsurgeon, C., Vogt, J.L., Walker, M.A., Wetherby, K.D., Wiggins, L.,
Young, A., Zhang, L.-H. and Green, E.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg, R. Direct Submission Submission Submission Submission Submission (06-JUL-2004) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                            Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Howard Jacobs
CDNA Library Preparation: Express Genomics
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLML)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithereburg, Maryland;
Web site: http://www.nisc.nih.gov/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                   Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Eute
Mammalia, Butheria, Buarchontoglires, Glires, Rodentia,
Sciurognathi, Muroidea, Muridae, Murinae, Rattus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue type="Lung, rat (Brown Norway)"
/clone lib="NIH MGC_231"
/lab_host="DH10B"
/note="Vector: pExpress1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="synonyms: Srb1, SR-B1, Cd3611"
/db_xref="GeneID:25073"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:10116"
/clone="MGC:91637 IMAGE:7099863"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Rattus norvegicus"
/mol_type="mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene="Scarb1"
                                                                                                                                                                         (bases 1 to 2408)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (bases 1 to 2408)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . .2408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12477932
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene
                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
```

240

301

241

300

361

360

421

420

120

181

121

480

481

540

541

9

```
/produčt="scavenger receptor class B type I"
/protein id="BAA74541.1"
/db xref="d1:4210541.1"
/db xref="d1:4210541.1"
/db xref="d1:4210541.1"
/db xref="d1:4210541.1"
/translation="www.srr.ww.referv.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.wr.gcar.
                                      AB002151 2497 bp mRNA linear ROD 11-MAR-1999
Rattus norvegicus mRNA for scavenger receptor class B type I,
complete cds.
AB002151 GI:4210541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RFGAPLFLSQPHFYNADPVLSEAVLGLNPDPKEHSLFLDIHPVTGIPMNCSVKMQLSL
YIKSVKGVGQTGKIEPVVLPLLWFEQSGMMGGKTLNTFYTQLVLMPQVLHYAQYVLLG
LGGLLLLVPIIYQLRSQEKCFLFWSGSKKGSQDKEAMQAYSESLMSPAAKGTVLQEAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nakanibhi,Y.
Direct Submission
Submitted (26-MAR-1997) Yoshinobu Nakanishi, Kanazawa University,
Submitted (26-MAR-1997) Sciences, 13-1 Takara-machi, Kanazawa,
Ishikawa 920-0934, Japan (B-mail:nakanaka@dbs.p.kanazawa-u.ac.jp,
Tel:076-234-4424, Fax:076-234-4480)
Tel:076-234-4424,
                                                                                                                                                                                                                                                                                                                    Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Buarchontoglires, Glires, Rodentia,
                                                                                                                                                                                                                                                                                                                                                                                                                                            Alizatsuchi, A., Kawasaki, Y., Ikemoto, M., Arai, H. and Nakanishi, Y. Role of class B scavenger receptor type I in phagocytosis of apptotic rat spermatogenic cells by sertoli cells
J. Biol. Chem. 274, 5888-5894 (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ccercectricacercercacecaceacrerceccecceccecceccaceacareacerca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           273 TCGGCGTTATCATGATTCTCATGGTGCCCTCGCTCATCAAGCAGGAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCGTCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 2497;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 1459.4; DB 9;
Pred. No. 1.3e-308;
0; Mismatches 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /dev stage="20 days after birth"
203. .1732
                                                                                                                                                                                                                                                                                                                                                                                           Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell_type="sertoli_cell"
/tissue_type="testis"
/clone_lib="cDNA_library"
                                                                                                                                                                                                         scavenger receptor class B type I.
Rattus norvegicus (Norway rat)
Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol type="mRNA"
/strain="DONRYU"
/db_xref="taxon:10116"
/clone="prSRB1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           203. .1732
/note="SR-BI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 81.8%;
Best Local Similarity 90.6%;
Matches 1556; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                              (sites)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
          AB002151
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCC 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCGATACTTTGTTTGCCAACGGGTCCGTCTACCACTAATGAAGGCTTCTGCCCGTGCC 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAGAGICTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1081 ACCCCCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCCCCACTTCTACAATGCTGACCCCGTGCTGTCAGAAGCTGTTCTTGGTCTGAACCCTG 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GITCTGTGAAGATGCAGCTGAGCCTCTACATCTGTCAAGGGCATCGGGCAAACAG 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGCAGTATGTGCTGCGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCGCAGCCAGGAGAATGCTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCGCAGCCAGGAGAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATA 1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1621 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1442 decadraterecrecreses de conservados de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de co
                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                             841
                                                                                                                                                                                                                                                                                                                                                                                                                       CATTCATGACACCCGAATCCTCGCAGAATTCTTCAGCCCAGAAGCCTGCAGATCTATGA 961
GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG 780
                                                                                                                                                                                                                                                                                                                ACTATTGGCATTCGGAACAGTGCAACATGATGGTACTGCCGGGCAGATGTGGCAC 901
                                                                                                                                                                                                                                                                                                                                                                                CCTTCAFGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                             ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCAAGACCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1622 TGCAAGAGCCAAGCTGTAGGGCCCAGAAGACACCACGAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                           782 GTGTCCAGAATTTCAGCAAGATCCATCTGGTGGATAAGTGGAACGGCCTCAGCGAGGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCACCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTTCCGTGAAGATGCAGCTGAGTCTGTACATCAAATCCGTCAAGGGCGTCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGAAGATCGAGCCAGTAGTCCTGCCATTGCTGTGGTTCGAACAACAGAGCGGGATGATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCGCCAGTGCCACGTCCTGAGCCCCCAGATGTCACAC 1778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACAC 1717
                                                                                                                                                                                                                                                                                                         842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1681
                                      722
                                                                                                          721
                                                                                                                                                                                                                                         781
                                                                                                                                                                                                                                                                                                                                                                                                                                                   902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1742
                                                                                                                                                                                                                                                                                                                                                                                841
                                                                                                      δ
                                                                                                                                                           요
                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
```

ö

212 120 272 180

9

240

TCCGCATAGACCCCAGCCTGTCCTTTGGGATGTGGGAAGGAGATCCCTGTTCCCTTCT 392

333

셤

RESULT

8 8 8 8

ሪ 8 ሪ

8 6 8

	AY451993 22-NOV-2003 N Rattus norvegicus scavenger receptor class B type 1 (Scarb1) mRNA, complete cds. AY451993 GI:38350548	Σ	LOZ LOD Ste in gen Gen 105	3 (bases 1 to 2401)  Miclean,M.P., Sandhoff,T.W. and Lopez,D.  Direct Submission  Submitted (28-OCT-2003) OB/GYN, University of South Florida, 4  Columbia Drive, Room 529, Tampa, FL 33610, USA  Location/Qualifiers  1. 2401  Appe="Rattus norvegicus"  //mol type="Rattus norvegicus"  // strain="Sprague-Dawley"  // chromosome="la"  // chromosome="la"  // chromosome="la"  // chromosome="Steroidogenic tissues"  // chromosome="Steroidogenic tissues"  // gene="Scarb1"  // gene="Scarb1"
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	RESULT 12 AY451993 LOCUS DEFINITION ACCESSION KENYMORDS	REFERENCE AUTHORS TITLE JOURNAL	FUENCE REFERENCE AUTHORS TITLE JOURNAL PUBMED	REFERENCE AUTHORS TITLE JOURNAL FEATURES SOUIC Gene CDS
241 ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCGAACGGTCCTCAACGGCCAGAAGC 300 393 ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCCAACGGCCAGAAGC 452 301 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACTCCTAAATGGCCAGAAGC 452 302 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGAGGTTCAAATGGCCAGAACC 452 453 CAGTAGTCCGGGAGCGTGGACCTATGTCTACAGGAGGTTCAGACACACA 360 453 CAGTAGTCCGGGAGCGTGGACCTATGTCTACAGGAGAAAGGTTCAACACACA 512 361 CCTTCAATGACAACGACCGTGTCTTCGTGGAGAACCGAAGCCTTCGTTTCCAGCCAG	661 AATTTGGCCTGTTTGTTGGAAGAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG 720		961 CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCC 1020	1081 ACCCCCACTITTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTTCTTGGTCTGAACCCTA 1140

```
GTTCCGTGAAGATGCAGCTGAGTCTGTACATCAAATCCGTCAAGGGCGTCGGGCAAACAG 1317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGAGGCCATGCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTAC 1617
AATTTGGCCTGTTCGTTGGGATGAACGACTCGAGTTCTGGCGTCTTCACCGTCTTCACAG 777
                                                    GTGTCCAGAATTTCAGCAAGATCCATCTGGTGGATAAGTGGAACGGCCTCAGCGAGGTCA
                                                                                                                              CATTCATGACACCCGAATCCTCACTGGAATTCTTCAGCCCAGAAGCCTGCAGAATCTTATGA
                                                                                                                                                                                                                                              AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTCATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAAGACCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGCTTCTGGTGCCCATCATTTACCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCGCAGCCAGGAGAAATGCTTTTTTTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                             CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                        CCGATACTCTGTTTGCCAACGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                               CGATACTITGTTTGCCAACGGTCCGTCTACCCACTAATGAAGGCTTCTGCCCGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                  GCGAGTCCGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGCAGTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGTGCCAAGGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCAAGAAGCCAAGCTATAGGGCCCAGAAGACACCACGACGACGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGTCAGACCAGCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                      ATTATTGGCATTCAGAGCAGTGTAACATGAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Acceaaaccarrecrrerrecragacarceaccecerracressarrecerraaacr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGCCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCGCCCGTGCCACGTCCTGAGCCCCCAGATGTCACACTGTCCCCACGCAC 1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1018
                                                                                                                                                                                                                                                                                                                                                                                                                                 1078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1738
718
                                                                     778
                                                                                                      781
                                                                                                                                          838
                                                                                                                                                                                                               898
                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                    958
                                                                                                                                                                                                                                                                                                                                                                                              1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1681
                                   721
                                                                                                                                                                             841
                                                                                                                                                                                                                                                                                                                       961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 13
RNU76205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                 à
                                                                   g
                                                                                                                                a
                                                                                                                                                                             ઠે
                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       吕
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                 /codon start=1
/product="scavenger receptor class B type 1"
/protein_id="AAR18387.1"
/db_xref="G1:38350549"
/translation="MGVSSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQQVLKNV
RIDPSSLSFGWWKEIPVPFYLSVYFFEVVNPSEVLNGKPVYRERGPYVIRERG
                                                                                                                                                                                                                              ITENDNDTVPYIENRSLRRQPDRSQGSESDYIVLPNILVLGGAVMMEDKPTSLKLLMT
LGLVTMGQRAFMNRTVGEILMGYEDPFVNFLSKYFPGMFPIKGKFGLFVGMNDSSSGV
PTVFTGVQNRSKIHLVDKMNGLSEVNYWHSBQCNMINGTAGQMMAPFMTPESSLEFFS
                                                                                                                                                                                                                                                                              PEACRSMKLTYQESRVPEGIPTYRFTAPDTLPANGSVYPNEGFCFCRESGIONVSTC
RFGAPLELSQPHYWDAPULSBAVLGHADPREHSLFUDIHPYTGIPNGCSVRNOLSL
YIKSVKGVGOTGKIEPVULPLMFEDSGMMGGKTLMPTYQLVLMPQVLHYAQVVLLG
LGGLLLLVPIIYQLRSQEKCFLFWSGSKKGSQDKEAMDAYSESLMSPANKGTLLGERA
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGTCCCCTTCAGGTCCTGAGCCCAGCGACTCTCGGCCGCGCGCACATGGGCGTCA 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAGATCCCTTTGTGAATTTCCTCAGCAAATATTTCCCAGGGATGTTCCCCATCAAAGGCA 717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                               /note="lipoprotein receptor; SR-B1, cla1, CD36; integral membrane protein localized in caveolae-containing regions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCGCCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCGGCGTTATCATGATTCTCATGGTGCCCTCGCTCATCAAGAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATTIGGCCTGTTTGTTGGGGATGAACAACTCGAATTCTGGGGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTIGICCGICTACTITITICGAGGICGICAACCCCAGAGGICCTAAATGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGTAGTCCGGGAGCGCGCACCTATGTCATCAGGGAGTTCAGACAAAAGGTTAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Acaderccaegecreagagagagagacracarreracreccraacarccregacag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGCAGTGATGATGGAGGACAAGCCCACAAGCCTGAAGCTGCTAATGACCTTGGGGGTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                           Score 1452.6; DB 9; Length 2401;
Pred. No. 3.9e-307;
0; Mismatches 174; Indels 0;
              /function="HDL receptor responsible for
flux of free and esterified cholesterol
lipoproteins and the cell surface"
                                                                                                    the plasma membrane"
                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                             81.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 1557;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   658
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      561
                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
```

셤 δ 셤 ò 셤 ઠે 셤 ò 엄 ò 8 ઠે g ò 셤 8 셤 8 유 ઠે 음

1080

1137

1017

960

897 900 1197

1257

1320

TITLE  TOTATION MALLY NOTWEDIOUS SCAWERING THEOPY CLASS B type I mRNA, complete CESSION  WORDS  SEXINA  WORDS  TOTATION  THEORY CHARGE AND CHAR	2 4 4 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	363 TTCAATGACAACGACCCTGCTGGAGAACCGCAGCCTCCATTTCCAGCCTGAC 42  161		12   GTCCAGAATTTCAGCAAGATCCATCTGGTGGATAAGTGGAACGGCCTCAGCGAGGTCAAC 780	QY         1023 GAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCAC 1082           Db         1021 GAGTCCGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCCTGTTTCTCTCCCCAG 1080           QY         1083 CCCCACTTTACAACGCCGACCTGGTTTGAGAGCTGTTTCTCTCTC
א א א א א א א א א א א א א א א א א א א	op mRNA linear ROD 21-eceptor class B type I mRNA, c	onger tor with sequence &	fiers  tus norvegicus"  tus norvegicus"  A"  11.10116"  MJ6I124-c1.2; MJ96I127-54; MJ96  11.ver"  h density lipoprotein dock-and-delive	unction="putatively delivers cholesterol to sroid="potatively delivers cholesterol to sroid="producing organs"  stold="stat=1"  coducing organs"  coducing organs  coducing orga	Gaps GCAGC      TCAGC TCAGC GGCTC GGCTC GGCTC

	365 CAATGACAACGACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA 4	425 GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGCTC 4	485 GATATTGATGGAGGCAAGCCTGGAGCCTGATGATGATGACCTTGGCGCTGGTCAC 5	545 CANGGGCCAGCGTATTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA 6	605 TCCCTTGGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT 6	665 TGGCCTGTTTGTTGGGARGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT 7	725 CCAGAATTTCAGCAGGATCCATCTGGTGGACCAAATGGAACGGACTCAGGAAGATCGATTA 7 	785 TTGGCATTCAGAGCAGTGTAACATGATCGATGGGCACCTTCCGGGCAGATGTGGGCACCCTT 8	845 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT 9	905 GACCTACAACGAATCAAGGTGTTTGAAGGCATTCCCAGGTATCGCTTCACGGCCCCCGA 9	965 TACTCTGTCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA 1	1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC 1	1085 CCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTICTTGGTCTGAACCCTAACCC 1	1145 AAAGGAGCATTCCTTGTTCCTAGACATCCATCGGTCACTGGGATCCCCATGAACTGTTC 1	1205 TGTGAAGATGCAGCTGAGCCTCTACATCTGTCAAGGGCATCGGGCAAACAGGGAA 1	1265 GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA 1	1325 GCCCTGAGCACGTTCTACACGCAGCTCGTGATGCCCCAGGTTCTTCACTACGCGCA 1	1385 GTATGTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGCCCATCATCTGCCAACTGCG
ପ୍ର	& B	දු පු	중 옵	දු පු	& 8	<b>상</b> 옵	& B	& B	· ·	& 8	\$ g	ර් අ	& 8	8 &	<b>상</b> 원	& g	\$ a	ò
								•										
	1323 AAGCCCTGAGCACGTTCTACACGCAGCTGGTGGTGATGCCCCAGGTTCTTCACTACGCG 1382 	1383 CAGTATGTGCTGCTGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCGACTG 1442 	1443 CGCAGCAGGAAATGCTTTTTGTTTTGGAGGGGTAGAAAAGGGCTCCCAGGATAAG 1502 	1503 GAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGCCACGGTGCTG 1562	1563 CAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGG 1622	1623 TCAGACCACCCAGTCCTACACCCGCTTCTTGAGGACTCTCTGAGGGA 1676 	KNO	TITION Sequence 3 from patent US 5998141. SION AR091980 AR091980.1 GI:10018734	dak dak	FERENCE 1 (JOSES I TO 1823) AUTHORS Acton, S.Laurene. TITLE Intronic and polymorphic SR-BI nucleic acids and uses therefor JOORNAL Patent: US 5998141-A 3 07-DEC-1999;	ō	Ouery Match 78.2%; Score 1396.2; DB 6; Length 1825; Best Local Similarity 88.7%; Pred. No. 8.78-295; Matches 1523; Conservative 0; Mismatches 193; Indels 1; Gaps 1;	CCTTCAGGTCCTGAGCCCCAACAGCCCTTCCGCGCACGCGGAACATGGGCGGCGCGCACGCCACGCGGACACGCGGGACCCGGAACCCGGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACCCGAACAAC	65 CAGGGCGCGCTGGGGCCTTGGGGTTGGGCGCCCTGGGGGCTGCT	CGTTGTCATGATCCTCATGGTGCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG		GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT	350 GICCGGGGGGGGGGCCTATGTCTACAICCCAGGGGGCAAAAGGGGGGGGGG

qq

ð

ò

8 8 8 8 8 8 8 8 8	6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8
Db 1490 GTATGTGCTGGGGGCCTCCTGCTGCTGGTGCCGTCATCTACCAGTTGCG 1549  Oy 1445 CAGCCAGGAGAAATGCTTTTTGTTTTGGTGTGCTGGTGCCGTCATCTACCAGTTAGGA 1504  1550 CAGCCAGGAGAAATGCTTTTTTTTTTTTTTAAAAAGGGCTCCCAGGATAAGGA 1609  Oy 1505 GGCCATTCAGGCCTACTCTGAGTCCTGATGCTCCCAGGGTCCCAGGGTCTGCA 1564  Db 1610 GGCCATTCAGGCCTACTCTGAGTCCTGATGCTCCCAGCTGCTGCA 1669  Oy 1565 AGAAGCCAAGCTATAGGTCTCTGATGTCACCAGCTGCTGATGCTTGGTC 1624	REPURTION Sequence 3 from patent US 6130041.   Innear PAT 16-WAY-2001 ACCESSION AR112115

 Search completed: February 23, 2006, 22:46:13 Job time : 9000.94 secs

THIS PAGE BLANK (USPTO)

```
Aaz30616 Mouse Sca
Abi99330 Mouse isc
Aad33917 Murine sc
Adj53336 Murine SR
Abd33431 Murine ca
Adr67032 Mouse can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Adz13454 Murine ca
Aeb03942 Murine Sc
Ab146318 Mouse Sca
Aeb03939 Murine Sc
Adz13452-Murine ca
Adb58616 Toxicity-
Adb58616 Poxicity-
Adb53264 Primary r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Abt42207 Toxicity
Adv41414 Rat cardi
Acd44926 Human cDN
Ad146120 Human var
Aat10116 Hamster s
                                                                                            February 23, 2006, 17:34:57; Search time 1077.59 Seconds (without alignments) 11039.845 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aax23404 Mouse sca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                     1 CCGTCTCCTTCAGGTCCTGA.....TCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                            9993994
                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                        4996997 seqs, 3332346308 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bummaries
                                                                OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADJ46120
AAT10116
                                                                                                                                                                                                                                     IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          genesegn2003cs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          geneseqn2003ds:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            geneseqn2004as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          geneseqn2004bs:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        geneseqn2002bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        geneseqn2003as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       geneseqn2003bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            geneseqn2005s:
                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       geneseqn2001bs:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                geneseqn1980s:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   geneseqn2001as:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     geneseqn2002as:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   geneseqn1990s:
                                                                                                                                                                                                                                                                                                                                                            length: 0
length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
                                                                                                                                                                   US-08-765-108-7
1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N_Geneseq_21:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0
100.0
100.0
100.0
98.7
                                                                                                                                                                                                                                                                                                                                                          Minimum DB seq
Maximum DB seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1459.4
1459.4
1396.2
1396.2
136.2
                                                                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1459.
                                                                                                                                                                                                       Sequence:
                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Database
                                                                                                   Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Result
No.
```

Aax23403 Hamster s Aaz30615 Hamster S Abs53744 CDNA enco Aad33915 Hamster s	Adj5334 Hamster S Aeb03941 Hamster S Aea33429 SR-BI ODN AGR73684 RAL SRB-I Adz13457 Human can Adz13463 Human can	Aba00256 Human SR- Acd4925 Human CDN Ad346118 Human CDN Aaz3194 Human CLA Aaa340750 Wild type Aa162623 Human CD3 Ad161166 Human tyr Ad4640209 Human SY- Aax24497 Human SR- Aax24589 Human SR- Ad213465 Human SR- Ad213465 Human Can Add3433 Human Can Add3433 Human Can Add3433 Human Can Add3433 Human Can	Ade09617 Novel DNA Adz13461 Human can Ade73689 Human SRB
AAX23403 AAZ30615 ABS53744 AAD33915	ADJ5334 AEB03941 AEA33429 ADS73684 ADZ13457 ADZ13463	ACD44925 ACD44925 ACD44925 AD746118 AAA232194 AAA62623 AD161166 AAX24497 AAX24497 AAX24589 AD33433 AD133465 AD33433	ADE09617 ADZ13461 ADS73689
9000	24444	4 6 1 2 8 6 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 14 13
1788 1788 1788 1788	1788 1788 1546 1531 2637 3116	2558 2565 2565 2565 2566 2665 2665 2665	2604 3185 1530
76.7 76.7 76.7	76.7 73.8 73.2 72.3 64.1	4446 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	62.7 59.2 58.7
1369.8 1369.8 1369.8 1369.8	1369.8 1316.8 1306.8 1291 1144.2	1142.6 1142.6 1142.6 1141.1141.1141.1141.1141.1133.1133.1133	1119 1056.8 1048.4
20 22 23	24 25 27 28 29	333 333 333 333 333 44 40 41 41	4 4 4 3
		o ·	υ
	•	•	

## ALIGNMENTS

```
This invention describes a method for modifying steroid production in a mammal Which comprises administering a compound that alters cholesterol or cholesteryl ester transport from high-density lipoprotein (HDL) or other lipoproteins to liver or steroidogenic tissues via SR-BI (scavenger
                                                                                                                                                      Scavenger receptor class B type I; mouse; steroid production; HDL; cholsterol; cholesteryl ester transport; high-density lipoprotein; lipoprotein; liver; steroidgenic tissue; SR-BI; contraception; treatment; disorder; overproduction; underproduction; menopause;
                                                                                                                                                                                                                  breast cancer; prostate cancer; endometriosis; fibroid tumour; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modification of steroid production in mammals - by administering modulator of SR-BI expression or activity.
                                                                                                                         Mouse scavenger receptor class B-I DNA.
                                                                                                                                                                                                                                                                                                                                                                                                           (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 80-81; 86pp; English
                              AAX23404 standard; DNA; 1785 BP
                                                                                                                                                                                                                                                                                                                                               98WO-US018463
                                                                                                                                                                                                                                                                                                                                                                            97US-0057943P
                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-204984/17.
P-PSDB; AAW93575.
                                                                                                                                                                                                                                                                                WO9911288-A1
                                                                                                                                                                                                                                                                                                                                               04-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                            05-SEP-1997;
                                                                                            17-JUN-1999
                                                                                                                                                                                                                                                                                                               11-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                          Krieger M;
                                                             AAX23404;
                                                                                                                                                                                                                                                    Mus sp.
RESULT 1
                AAX23404
```

~

Mon

```
AAZ30616 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-JAN-2000
                                                                                                                                                                                                                                                                                                                                                        1441
                                                                                                                                                                                                                                                                                                                                                                                                                                     1561
                                     961
                                                         196
                                                                            1021
                                                                                               1021
                                                                                                                  1081
                                                                                                                                                                                               1201
                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                            1321
                                                                                                                                                                                                                                                                                                                  1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAZ30616;
901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ30616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                 ద
                                                                                                                                                        ò
                                                                                                                                                                        셤
                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                   임
                                                                                                                                                                                                                                                                                                                                                                         용
                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
               유
                                     ò
                                                   셤
                                                                          ò
                                                                                            셤
                                                                                                                 ò
                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                           ે
                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                         ö
                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                               540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    900
                                                                                                                                                                  120
                                                                                                                                                                                     120
                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           780
                                     cancer
                                                                                                                             9
                                                                                                                                             9
receptor class B type 1). This method is useful for female contraception
      for treating disorders characterised by overproduction of steroids, for treating disorders characterised by underproduction of steroids, for especially menopause, for treating disorders that can be treated by decreasing steroid production, especially breast cancer, prostate cancenendometriosis or fibroid tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                    TCGGCGTTGTCATGATCCTCATGATGCTCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                      ACTIGICIGICIACTICITCGAAGIGGICAACCCAAACGAGGICCICAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                      ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                   ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCACCATGGGCCAGCGTGTTTTATGAACCGCACAGTTGGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATTIGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGCAC
                                                                                                                                             TCCGCATAGACCCCGAGCAGCCTGTCCTTCGGGATGTGGGAAGAGAGATCCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                        CAGTAGTCCGGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                  CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                     cerreaargacaacaccgrerecrrecresasaaccccaccrearrrecageers
                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                           CCGTCTCCTTCAGGTCCTGAGCCCCCGAGGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                         Gaps
                                                                                                         ö
                                                                                      Length 1785;
                                                                  U; 0 Other;
                                                                                                         Indels
                                                                                      2;
                                                                                                        ;
                                                                  Sequence 1785 BP; 386 A; 524 C; 475 G; 400 T; 0
                                                                                      DB
                                                                                    100.0%; Score 1785;
100.0%; Pred. No. 0;
ative 0; Mismatches
                                                                                    Query Match 100.
Best Local Similarity 100.
Matches 1785; Conservative
                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                  61
                                                                                                                                                                                     61
                                                                                                                                                                                                         121
                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    841
8888888888
                                                                                                                            8 6
                                                                                                                                                                ò
                                                                                                                                                                                g
                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                              ç
                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                         8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8
```

1080 1080 1140 1140 1380 1380 1440 1440 1560 1560 1620 1680 1201 Gricigica de de constante 960 960 1321 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG Hamster; scavenger receptor; modulation; cholesterol transport; lipid; lipoprotein; mammalian cell; plasma; expression; clearance rate; HDL; GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTTCTCTCCC 901 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC TGCGCAGCAGGAAATGCTTTTTGTTTTTGGAGTGGTAAAAAAGGGCTCCCAGGATA 1621 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC 1081 ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG CGCAGTATGTGCTGCTGCGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCCATCATCTGCCAAC 1501 AGGAGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCTCTGTTTCTCTCCC ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGTCACTGGGATCCCCATGAACT 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG 1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACCTGATAGCTT 1561 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAC 1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1788 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785 gene. Mouse Scavenger receptor class BI ВЪ CDNA; 1785 (first entry)

720 720

```
1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCGCAGCCAGAGAATGCTTTTTGTAGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATTIGGCCTGTTTGTTGGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTATTGGCATTCAGAGCAGTGTAAACATGATCAATGGGACTTCCGGGCAGATGTGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGCAGTATGTGCTGCTGGGGGCTTGGAGGCTTCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                481 GCTCGATATTGATGGAGAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                           541 reaccardedecracification reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccarded and reaccar
                                                                                                                                                                                                                                                                                                                                                          Accariccirrenteracionaria de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricción de la accaricación de l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGGTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1201 GIICIGIGAAGAIGCAGCIGAGCCICIACAICAAAICIGICAAGGGCAICGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCGCAGCCAGGAGAAATGCTTTTTTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCCCCAGGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                         AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1021 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGGGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     132i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441
                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                                                                         199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1501
                                       481
                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1201
                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence represents coding sequence of the mouse scavenger receptor class BI (SR-BI) which is used in a method of modulating cholesterol transport. The method comprises selectively altering the transport of lipid, cholesterol and/or lipoproteins (or their components) into and out of mammalian cells to alter plasma cholesterol levels, by administering a compound which alters the expression or activity of the SR-BI scavenger protein receptor. This alters the rate of clearance of the protein component of high density lipoprotein (HDL) as compared to the ester component of HDL. The method may be used to control cholesterol levels in the blood plasma of mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modulating cholesterol transport for the control of cholesterol levels in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGCTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACAAGTCGCATGGCTCAGAGAGAGACTACATTGTACTGCCTAACATCTTGGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTTGTCTGTCTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGCCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1785 BP; 386 A; 524 C; 475 G; 400 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 2;
   high density lipoprotein; ester; blood; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 1785; 100.0%; Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                      TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Col 25-28; 23pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ķ
                                                                                                                                                                                                                                                         96US-00749907
                                                                                                                                                                                                                                                                                                                     96US-00749907
                                                                                                                                                                                                                                                                                                                                                                                 (UYPE-) UNIV PENNSYLVANIA.
(MASI ) MASSACHUSETTS INST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.
Matches 1785; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rigotti A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1999-589717/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P-PSDB; AAY44020
                                                                                                                                                                                                                                                      15-NOV-1996;
                                                                                                                                                                                                                                                                                                                     15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure;
                                                                                                                              USS962322-A
                                                                                                                                                                                          05-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ΣÌ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

1140

1260

1020

```
1620
                                       1680
                                                                       1680
                                                                                                        1740
                                                                                                                         The present invention describes a method for examining ischaemic conditions, comprising measuring the expression levels of particular genes (1) in a test sample or determining the expression profile of a genes (1) in a test sample or determining the expression profile of a gene group in the sample comprising genes selected from (1). The method is useful for examining the ischaemic condition (e.g. compressive ischaemia, occlusive ischaemia or vasospastic ischaemia) by measuring expression levels of particular genes (ABI99202 to ABI99912, encoding the protein sequences in ABB57020 to ABB57374) or by determining the expression profile of a gene group comprising these genes. The expression indicator when screening for ischaemic condition-improving drugs or therapeutics for ischaemic diseases. ABI99913 and ABI99914 represent PCR primers for a some ischaemic condition related sequence, which are used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Examining the ischemic condition (e.g. occlusive ischemia) by measuring expression levels of particular genes defined in the specification or by determining the expression profile of a gene group comprising these
                                                                     GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                      TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                       GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                       88
                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse, ischaemia, compressive ischaemia, occlusive ischaemia, vasospastic ischaemia, ischaemic condition, ischaemic disease,
                                                                                                                                                                                                                                                                                                                                                                                    Mouse ischaemic condition related cDNA sequence SEQ ID NO:201.
                                                                                                                                                                                        1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     χ̈́
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ishii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Takahashi Y, Nagata T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYNI-) UNIV NIHON SCHOOL JURIDICAL PERSON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 2; Page 573-576; 2690pp; English.
                                                                                                                                                                                                                                                                                      BP
                                                                                                                                                                                                                                                                                      ABI99330 standard; cDNA; 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-MAY-2001; 2001WO-JP004192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-MAY-2000; 2000JP-00145977
                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ishikawa K, Asai S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002-034733/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P-PSDB; ABB57092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200188188-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus
                                                                                                                                                                                                                                                                                                                                                   07-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-NOV-2001
      1561
                                       1621
                                                                       1621
                                                                                                      1681
                                                                                                                                     1681
                                                                                                                                                                                                                                                                                                                   ABI99330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       genea
                                                                                                                                                                                                                                                    쉽
셤
                                     ઠે
                                                               셤
                                                                                                    ò
                                                                                                                                                                   Š
                                                                                                                                                                                        셤
```

6; Length 1785;

DB

Score 1785; Pred. No. 0;

100.0%;

Query Match Best Local Similarity

Sequence 1785 BP; 386 A; 524 C; 475 G; 400 T; 0 U; 0 Other;

```
1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                    240
                                                                             120
                                                                                                      120
                                                                                                                                180
                                                                                                                                                          180
                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  960
                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720
                         9
                                                  9
                                                                                                                                                                                                                                                         361 CCTTCAATGACAACACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCATGACACCCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961 CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCC
                                           CGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACACGCGGACATGGGCGGCA
                                                                                             TCGCCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCTGCTCAAGAATG
                                                                                                                                                           121 resecciristearsarecrearssarsecreecerecrearcassassassars
                                                                                                                                                                                                                                                                                                              ACAAGTCGCATGGCTCAGAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                           ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCTTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCCACGTATCGCTTCACGGCCC
                                                                             181 TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTCGATATTGATGGAGGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                         1 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACACGCGGACATGGGCGCGA
                                                                                                                                                                                      TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                         ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                               CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
Gaps
ö
Indels
 ö
Mismatches
 ö
Conservative
 Matches 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     841
                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                      181
                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                               셤
                                                                              ò
                                                                                                    셤
                                                                                                                                ઠે
                                                                                                                                                          셤
                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                      δ
```

ઠે g ठ 셤 Š 셤 8 셤 ò 셤

```
The invention relates to an antibody specific for scavenger receptor protein type B-I (SR-BI) derived from murine and hamster. Antibodies of the invention are useful for detection, characterisation and isolation of receptor proteins and for inhibiting scavenger protein binding to low density lipoprotein (LDL). The present sequence is murine SR-BI DNA
                                                                                                                                                                                                                                  Antibody specific for scavenger receptor protein type B1 useful for detection, characterization or isolation of receptor proteins, as well inhibiting scavenger protein binding to low density lipoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTIGICIGICIACITCITCGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 ACTIGICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCACCATGGGCCAGCGTGCTTTTATGACCCCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGAGCAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCGCATAGACCCGAGCAGCCTGTCCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTAGTCCGGGAGGGTGGGACCCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCGATATTGATGGAGGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 100.0%; Score 1785; DB 6; Length 1785; Best Local Similarity 100.0%; Pred. No. 0; Matches 1785; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1785 BP; 386 A; 524 C; 475 G; 400 T; 0 U; 0 Other;
                                                                                                       (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                          Disclosure; Col 45-49; 41pp; English.
                                                                                                                                             Rigotti A;
                                                    94US-00265428
97US-00765108
                  99US-00241581
                                                                                                                                                                                                  P-PSDB; AAE21525
                                                  23-JUN-1994;
27-MAR-1997;
                                                                                                                                             Krieger M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            상. 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                        1200
                                                                                                                                                                                                                                                                                                                                                                                                                    1440
                                                                                                                        1200
                                                                                                                                                            1260
                                                                                                                                                                                                                                    1320
                                                                                                                                                                                                                                                                                                          1380
                                                                                                                                                                                                                                                                                                                                                                                  1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1740
                                                                                                                                                                                                                                                                      1320
                                                                                                                                                                                                                                                                                                                                              1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scavenger receptor protein type BI; low density lipoprotein; LDL; murine;
                                                                                                                                                                               GTTCTGTGAAGAAGAAGCTGAGCCTCTACATCAATCTGTCAAAGGGCATCGGGAAACAG
                                                                                                                                                                                                                                                     GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                              CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCGCAGCAGGAGAAATGCTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGTCAGACCAGCCCACCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTTCTAGCGCGACAGC
                                                    ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                         ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                          GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                  GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                               GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                              CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCGCAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGTCAGACCAGCCACCCAGTCCCTACACCCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGAAC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 scavenger receptor type B-I (SR-BI) DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
/product= "SR-BI protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
51. .1580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA; 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SR-BI; gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US6350859-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-FEB-2002
                                                 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1501
                                                                                    1141
                                                                                                                        1141
                                                                                                                                                          1201
                                                                                                                                                                                              1201
                                                                                                                                                                                                                                  1261
                                                                                                                                                                                                                                                                      1261
                                                                                                                                                                                                                                                                                                        1321
                                                                                                                                                                                                                                                                                                                                          1321
                                                                                                                                                                                                                                                                                                                                                                              1381
                                                                                                                                                                                                                                                                                                                                                                                                                  1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAD33917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD33917
```

셤 ሯ 셤

8

셤

ઢ

셤 ሯ 8 ð

ò

ö

ö

120 120 180 180 240

9

300 300 420 480 480 540

Mus sp

RESULT 4 AAD33917

셤

8

요

ઠે

셤 ò 셤 8 음 ò g ઠ 셤 ò 셤 8 유 ò 셤 δ 셤 ઠ 셤 ò g ઠે 셤 ò g ò 셤 à 유

δ

```
The invention relates to a method for screening compounds that alter transport of lipids, cholesterol, lipoproteins or their components, mediated by the SR-Bi scavenger receptor (SR-BI HDL receptor) or a homologue. The test compound is administered to an animal and cholesterol or bile acid levels, production levels of steroid hormones or alterations in chemical composition of lipids, lipoproteins, cholesterol, steroid hormones, bile acids and vitamin A is measured. Agents that alter transport of lipids, cholesterol or lipoproteins are potentially useful for the treatment or prevention of atherosclerosis, fat uptake by adipocytes and some endocrine disorders. This sequence represents CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 ccercrocricaderccreadecccceadaecccriccececaceceacaregeceaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Screening for agents that influence lipid transport, useful e.g. fo treating or preventing atherosclerosis, based on modulation of the
                                                                                                                                                                                                                                                                                                 Mouse; SR-BI; scavenger receptor; HDL receptor; gene; ss; lipid; cholesterol; lipoprotein; bile acid; stearoid hormone; vitamin A; atherosclerosis; adipocyte fat uptake; endocrine disorder; antiarteriosclerotis; scavenger receptor class BI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 12; Length 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            encoding the murine SR-BI scavenger receptor of the invention
                                                      1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1785 BP; 386 A; 524 C; 475 G; 400 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
                                         1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC
                   1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 1785;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= a
/product= "Murine SR-BI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 3; 22pp; English
                                                                                                                                                                                                                                                               SR-BI scavenger receptor cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
51. .1580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Krieger M;
                                                                                                                                                  BP.
                                                                                                                                                  CDNA; 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96US-00749907.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-JUN-2002; 2002US-00178611
                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      st Local Similarity 100.
tches 1785; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kozarsky K, Rigotti A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-246237/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (KOZA/) KOZARSKY K.
(RIGO/) RIGOTTI A.
(KRIE/) KRIEGER M.
                                                                                                                                                  ADJ53336 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              scavenge receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P-PSDB; ADJ53337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2003167475-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-AUG-1999;
                                                                                                                                                                                                                          06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Si
Matches 1785:
                                                                                                                                                                                       ADJ53336;
                                                                                                                                                                                                                                                               Murine
                                                                                                                                ADJ5333
                                                                                                             RESULT
                                                                                                                                                    원
                   ò
                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1740
                                                                                                                                                                                                                                                                                                                                                                                                                                     GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1081 ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCCCCACTITITACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCCATCCGGTCACTGGGGATCCCCATGAACT 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAATCTGTCAAGGGCATCGGGCAACAG 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTTCTGTGAAGATGCAGCTGAGCCTCTACATCTGAAATCTGTCAAGGGCATCGGGCAAACAG 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGAAGATCGAGCCAGTÄGTTCTGCCGTTGCTGTTCGAACAGAGCGGAGCAATGGGTG 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGCAGTATGTGCTGCTGGGGGCTTGGAGGCCTCCTGTTGCTGCCCATCATCTGCCCAAC 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCGCAGCCAGGAGAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCC 1020
                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                        960
                                                                                                                                                                                                                                                                                                                                                                             960
                                                                        720
                                                                                                             780
                                                                                                                                                780
                                                                                                                                                                                     840
                                                                                                                                                                                                                          840
                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCCAGATGTGGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCCCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCAAGAAGCCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCAAGAAGCCAAGAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1621 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTAGCGGACAGC
                                                                                                                                      GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAAAGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                     ATTATTGGCATTCAGAGCAGTCTAACATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                    CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
501 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                   AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACGG
                                                            AATTTGGCCTGTTTGTTGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                      AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                             GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                             CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                        661
                                                                                                                                                721
                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1681
                                   199
                                                                                                             721
                                                                                                                                                                                     781
                                                                                                                                                                                                                        781
                                                                                                                                                                                                                                                             841
                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                                                                                                                     961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1561
```

9 9

1141   ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT   1200     1141   ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCCGTCACTGGGATCCCCATGAACT   1200     1141   ACCCAAAGGAGCATTCCTTGTTCTTGTTCTACTCGGTCACTGGGATCCCCATGAACT   1200     1201   GTTCTGTGAAGATGCGCTCTACATCCAAATCTGTCAAGGGCATCGGGCAAACAG   1260     1201   GTTCTGTGAAGATGCAGCTCAACATCTGTCAAGGGCATCGGGCAAACAG   1260     1201   GTTCTGTGAAGATGCAGCTCAACATCTGTCAAGGGCATCGGGCAAACAG   1260     1201   GTTCTGTGAAGATGCTGCTGTGCTTGTCAAGGGCATCGGGAACAACAG   1260     1201   GTTCTGTGAAGATGCTGTGCTCTGTGGTTCTGTCAAGGGCATCAGGGTG   1320     131   GGAAGATCGAGCACGTTCTACACGCTGGTTGCTGGTTCTCAAAGGGCAAATGGTG   1380     1321   GCAAGCCCCTGAGCACGTTCTACACGCTGGTGCTGATGCCCCAGGTTCTTCACTACG   1380     1321   GCAAGCCCCTGAGCACGTTCTACACGCTGGTGCTGATCTCTCACTACG   1380     131   CGCAGTATGTGCTGGTGGCTTGGTGGTGCTGATGCCCAACATCTTCACTACG   1380     1381   CGCAGTATGTGCTGGGGGCTTGGAGGCCTCCTTGTTGCTGCCAACATCTTCTCCCAACAT	141	1741 ATGCCCACGCATGTGCAAAAA 	DE Murine cancer-associated (CA) cDNA MR07-081.  XX KW Mouse; cancer-associated protein; CAP; cancer-associated gene; CA; gene;  XX SX Nus musculus.  XX PD 15-JUL-2004.  XX FT 17-DEC-2003; 2003WO-US040081.  XX FR 17-DEC-2002; 2002US-00322281.  XX PA (SAGR-) SAGRES DISCOVERY INC.  XX PY MOTTIS DW, Malandro MS;  XX PI WPI; 2004-499109/47.
GC 120 GC 120 GC 120 GC 120 GC 240 GC 300 GC 300			HGA 900 HGA 900 HGC 960 HGC 1020 HGC 1020 HGC 1080 HGC 1080 HGC 1080 HGC 1080 HGC 1080 HGC 1080
	CCTTCAATGACAACGACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGGGGG ACAAGTCGCATGGCTCAGAGAGCTACATTGTACTGCCTAACATCTTGGTCCTGGGGG GCTCCAATATTGATGAAGCAAGCTGTGAGCCTGAAGCTGATGATGATGATGATGATGATGGCTGGGGCTTG CCCATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGATGATGATGATGATGGGGGCTTG TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGATGATGATGGGGGGCTATG TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG TCACCATGGGCCAGCGTGCTTTTTTTTTT	AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTCACGG  AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTCACGG  AATTTGGCCTTTTTCAGCAGGATCAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG  GCGTCCAGAATTTCAGCAGAATCCATCTGGTGACAAATGGAACGGATCTCAGCAGATCG  ATTATTGGCATTTCAGCAGGATCCATCTGGTGACAAATGGAACGGACTCAGCAGATGTG  ATTATTGGCATTCAGAGCAGTGTAACATGATGAGGACTTCCGGGCAGATGTGGGCAC  ATTATTGGCATTCAGAGCAGTGTAACATGATGAGGACTTCCGGGCAGATGTGGGCAC	841 CCTTCATGACACCGGATCCTCGCTGGATTCTTCAGCCCGGAGGATCGTGGAGGATCGTGAGGATCCATGA  841 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA  841 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA  901 AGCTGACCTACAACGAATCAAGGGTCTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC  961 CCGATACTCTGTTTGCCAACGGGTCCGTCTTCACCCACCGTATCGCTTCACGGCCC  961 CCGATACTCTTTTGCCAACGGGTCCGTCTTACCCACCGAAGGCTTCTGCCCATGCC  1021 GAGGTCTGGCATTCACACGGGTCCGTCTTCACCCCACCGAAGGCTTCTGCCCATGCC  1021 GAGGTCTGGCATTCACACGGGTCCGTCTTGCTCGCACTTCTCCCCTCTCTCT
61 GCTCCAGGGGGGGTGGGTGG 61 GCTCCAGGGGGGGGTGGGTGG 121 TCGGCGTTGTCATGATCCTCZ 121 TCGGCGTTGTCATGATCCTCZ 121 TCGGCTTGTCATGATCCTCZ 181 TCGGCTTGTCATGATCCTCZ 241 ACTTGTCTGTCTACTTCTTCC 241 ACTTGTCTGTCTACTTCTTCC 301 CAGTAGTCCGGGAGCGTGGAC		661 AATTTGGCCTGTTTGTTGGG 	### ### ##############################

ω

us-08-765-108-7.rng

The invention relates to cancer-associated proteins (CAP) and the cancer-associated (CA) nucleic acids encoding them. The invention also relates to associated (CA) nucleic acids encoding them. The invention also relates to a method for treating con a patient an inhibitor of CAP, and a method of screening for anticancer activity in a potential drug involving providing a cell that expresses a CA gene, contacting a tissue sample derived from a cancer cell with an anticancer drug candidate and monitoring the effect of the anticancer drug candidate on expression of the CAP proteins are useful for detecting cancer associated with expression of a CAP protein in a test cell sample activity of a CAP protein. The CAP nucleic acids are useful for diagnosing cartivity of a CAP protein. The CAP nucleic acids are useful for diagnosing cartivity of a CAP protein. The CAP nucleic acids are useful for diagnosing cartivity of a CAP protein. The cap nucleic acid in a cativity of a CAP protein. The cap nucleic acid in a capture represents murine CA cAPA of the invention. Note:

The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO.

The they wipo int/pub/published\_pot\_sequences Novel human cancer associated protein encoded within open reading frame of cancer associated gene, useful as targets for diagnosing cancer. Disclosure, SEQ ID NO 564; 182pp; English. 

Sequence 2496 BP; 517 A; 741 C; 660 G; 578 T; 0 U; 0 Other;

ò 셤 ò В à 8 ò 셤 ઠ 셤 ò 셤 ò 유 Š 셤 ò 셤 ઠે 셤

ô TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGCAGCTGCTCAAGAATG 180 240 420 480 540 900 9 202 262 382 300 442 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGGGGTTCAGAAAAGGTCAAAAAGGTCAAAAAGGTCAA 502 562 622 682 742 802 TCGCCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGCTCCTCAAGAATG 322 9 rccecaradaccceaecerercerrceegareregaagarcccercerrrer ACTIGICIGICIACTICITCGAAGIGGICAACCCAAACGAGGICCICAACGGCCAGAAGC ACTIGICATORICIACITICATOGAAGIGGICAAACGAGGGCCCCAAACGAGAAGC CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG rcaccarececcaecerecririrargaaceecacaerregreagarecrererege ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 1 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA CGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCC TCCGCATAGACCCGGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT Gaps DB 13; Length 2496; ö Indels ; 0 t; Score 1785; I
t; Pred. No. 0;
0; Mismatches 100.0%; Query Match 100. Best Local Similarity 100. Matches 1785; Conservative 143 61 203 263 323 241 383 301 443 503 421 481 623 541 683 743 121 181 361 563 601

ራ	661	AAITITGGCCTGTITGTIGGGAIGAACAACTCGAAITCTGGGGTCTTCACTGTCTTCACGG 720
ò	~	CAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
Op	863	
ò	781	ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGGCAC 840
අු	923	ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 982
ð i	841	CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900
a a	983	CCTTCATGACACCCGGAATCCTCGCAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 1042
රු පි	901	01 AGCTGACCTACAAAGGAATCAAGGGTGTTTGAAGGCATTCCCAGGTATCGCTTCACGGCC 960 
ò	961	
qq	1103	
ò	1021	
qa	1163	
Š	1081	ACCCCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
g G	1223	128
ζ	4	12
අු	1283	CACTGGGATCCCCATGAACT 134
ò	1201	10
qa		CTGTGAAGATGCAGCTGAGCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG 140
ò	1261	~
qq	1403	
δ	1321	
qq	1463	
È	1381	181   CGCAGTATGTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1440
q	1523	
ò	1441	
qa	1583	rececaeccaegadarecritricitricaerecradadadecreceaegana 1642
ò	1501	
дg	1643	AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1702
ò	1561	TGCAAGAAGCCAAGCTATAGGCTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGGTT 1620
QQ	1703	recaagaagccaagcraragggrecrgaagacactaraagccccccaaaccrgaragcrr 1762
ò	1621	
qa	1763	GGTCAGACCAGCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC 1822
ò	1681	
q	1823	CACCAGIGCCAIGGCCIGAGCCCCCAGAIGICACACTGICCGCACGCACGCACATGG 1

```
nucleic acid (I). Also described: (I) an expression vector comprising (I) in the present interpression to the expression vector; (3) a microarray for detecting a CA nucleic acid; (4) an isolated cancer associated protein (CAP) polypeptide, encoded within an open reading frame of a CA sequence; (5) an isolated antibody, or its antigen binding fragment, that binds to the above polypeptide; (6) a hybridoma that produces the above antibody and a pharmaceutical excipient; (8) a kit produces the above antibody and a pharmaceutical excipient; (8) a kit for detecting cancer cells, comprising the (monoclonal) antibody comprising the above, (9) methods for diagnossing cancer or for detecting the presence or absence of cancer cells in an individual; (10) a method for inhibiting growth of cancer cells in an individual; (11) a method for inhibiting growth of cancer cells in an individual; (11) a method for cancing inhibiting the above polymucleotide or polypeptide, or their fragments; (13) methods of screening for anticancer activity or for their fragments; (13) methods of exceening for anticancer activity or cancer cell sample, or with the presence of an antibody in a test serum sample; (15) a method for treating cancers; and (16) a method for inhibiting the expression of CA gene in a cell. The CA sequences have cytostatic activity, and can be useful for detecting, diagnosing, They may also be used in screening for agents that modulate cancer. The present sequence represents a cancer associated gene cDNA sequence, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes an isolated cancer associated (CA)
cancer; cancer associated nucleic acid; cancer associated cancer associated protein; CAP; cytostatic; vaccine; gene lymphoma; leukaemia; mouse; gene; ss.
                                                                                                                                                                                                                                                                  Mouse cancer associated gene cDNA sequence SEQ ID NO:78.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 78; 166pp; English
                                                                                                                                            ADR67032 standard; cDNA; 2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-FEB-2003; 2003US-00367094.
14-MAX-2003; 2003US-0038B338.
28EP-2003; 2003US-0069920.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-FEB-2004; 2004WO-US005000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SAGR-) SAGRES DISCOVERY INC.
                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morris DW, Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-652915/63.
P-PSDB; ADR67033.
                                                                                                                                                                                                                                                                                                                                                                                                                               WO2004074321-A2
                                                                                                                                                                                                                          18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-SEP-2004
                                                                                                                                                                                    ADR67032;
                                                                                                    RESULT 7
                                                                                                                           ADR67032
                                                                                                                                            ð
```

```
1042
                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1103 CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCC 1162
                                                                                                                                                  202
                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                       322
                                                                                                                                                                                                                                                                                                                                                                                382
                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                             442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                            262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         982
                                                                                                                                    143 CCTCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              683 TCACCATGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        743 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                               121 TCGCCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                             263 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                241 ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   443 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            563 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   623 GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             661 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                863 GCGTCCAGAATTTCAGCAGCATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                        203 GCTCCAGGGGGGGCGCTGGGTGGCCTTGGGGTTGGGCGCCCTGGGGCTTGGGGCGCCTTGGGGGTTGGGGG
                                                                                                                                                                                                                                                                                                                                          TCCGCATAGACCCGAGCAGCCTGCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                503 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTCGATATTGATGGAGGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   803 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            923 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCATGACACCCGGAATCCTCGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   983 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1043 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                           1 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTTGGTCCTGGGGG
                                                                         Gaps
                                 Length 2496;
                                                                       ö
Sequence 2496 BP; 517 A; 741 C; 660 G; 578 T; 0 U; 0 Other;
                                                                         Indels
                                   DB 13;
                                                                         ö
                   100.0%; bcc.
100.0%; Pred. No. c.
... 0; Mismatches
                                 Query Match 100.
Best Local Similarity 100.
Matches 1785; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                           383
                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    961
                                                                                                                                                임.
                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

Malandro MS;

2005-273395/28

```
The invention relates to a nucleic acid array for detecting a cancer associated (CA) nucleic acid, comprising two or more nucleic acid probes. The invention also relates to a peptide array comprising two or more isolated polypeptides encoded by a CA nucleic acid sequence, a compound that binds to a polypeptide, which is prepared by immunizing a host animal with a composition comprising the polypeptide or its antigen binding fragment and collecting cells from the host expressing antibodies against the antigen or its antigen binding fragment, a composition comprising the antigen or its antigen binding fragment, a composition comprising the antigen or its antigen binding fragment, a composition comprising the complex carrier, a method of sortening cancer and a method of inhibiting expression of a CA nucleic acid, a method of diagnosing cancer, a method of treating cancer and a method of inhibiting expression of a CA nucleic acids are useful for detecting CA nucleic acids. The antibody is useful for detecting the presence or absence of cancer cells in an individual which involves contacting cells from the individual with the antibody and detecting a complex of a CA protein from the cancer cells in the antibody and detecting a complex of a CA concercates with the presence of cancer cells in the individual. The composition is useful for inhibiting growth of cancer cells in an individual. The invention is also useful for diagnosing cancer, for treating cancer and for inhibiting expression of a CA gene in a cell. This sequence represents murine cancer-associated cDNA of the
                                                                                                                                                                                                                              Nucleic acid array useful for detecting cancer associated nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 2513 BP; 520 A; 749 C; 664 G; 580 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                    comprises two or more nucleic acid probes.
                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 974; 198pp; English.
23-SEP-2004; 2004WO-US031617
                                         23-SEP-2003; 2003US-00669920
                                                                                  CHIR ) CHIRON CORP
                                                                                                                                                                                       P-PSDB; ADZ13455
                                                                                                                            Morris DW,
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                       1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1440
                   GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC 1080
                                                                                                                                                                                     ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT 1200
                                                                                                                                                                                                                              1342
                                                                                                                                                                                                                                                                                                                 1402
                                                                                                                                                                                                                                                                                                                                                          1320
                                                                                                                                                                                                                                                                                                                                                                                               1403 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG 1462
                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1463 GCAAGCCCCTGAGGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG 1522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGCAGTATGTGCTGCTGGGGCTTGGAGCCTCCTGTTGCTGCCCATCATCTGCCAAC 1582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA 1642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGTCAGACCAGCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGGGACAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1763 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC 1822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT 1620
                                                                                                                                                                                                                                                                                             GTTCTGTGAAGATGCAGCTGAGCCTCTACATCTAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                       GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGCAGTATGTGCTGCTGGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCGAAC
                                           GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTGGTGCCCCTCTGTTTCTCTCCC
                                                                                                                            ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          703 TGCAAGAAGCCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                            acccaaaggagcarrccrrgrrccragacarccarccgrcacrgggarccargaacr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCGCAGCCAGGCAAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1883 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACCAGGGACC 1927
                   1021
                                                          1163
                                                                                                    1801
                                                                                                                                           1223
                                                                                                                                                                                     1141
                                                                                                                                                                                                                              1283
                                                                                                                                                                                                                                                                       1201
                                                                                                                                                                                                                                                                                                            1343
                                                                                                                                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                                                                                                                                                                                         1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1501
                                                                                                  Š
                                                                                                                                셤
                                                                                                                                                                          ò
                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  දු පු
```

240 120 279 180 339 399 300 459 219 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 420 460 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG 280 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG 400 ACTIGICIGICTACTICITCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 340 TCCGCATAGACCCGAGCCGGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT ACTIGICIGICIACTICITCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 160 CCGTCTCCTTCAGGTCCTGAGCCCCGAGACCCCTTCCGCGCACACGGGACATGGGCGGCA TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT CCGTCTCCTTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA Gaps DB 14; Length 2513; ö 0; Indels 100.0%; Score 1785; 100.0%; Pred. No. 0; iive 0; Mismatches Matches 1785; Conservative Best Local Similarity н 61 121 181 241 301 361 Query Match 셤 ઠે 셤 g ò 셤 ઠે 셤 8

DNA microarray; microarray; biochip; cancer; neoplasm;

Murine cancer-associated cDNA #109.

cytostatic; gene; ss

Diagnosis;

WO2005031001-A2

07-APR-2005

(first entry)

16-JUN-2005

ADZ13454

ADZ13454 standard; cDNA; 2513

RESULT

ö

à

δ

셤

ð

유

8

d ઠે ద

8

셤

ò

셤

ठ

ð

ద

용 ò 셤

ò

g

ઠે

ઠ

ठ

8 셤 g

8

```
The present invention relates to a novel genetically engineered mouse, cells derived from it, where Scavenger Receptor Class B-1 (SR-BI) gene expression or SR-BI activity has been inactivated. SR-BI is a high density lipoprotein (HDL) receptor. It was found that estrogen downregulates SR-BI under conditions of upregulation of the low density
                                                                                                                                                                                                New genetically engineered mouse or derivative cells with inactivated BI gene expression or activity, useful as a model for designing drugs that can modulate cholesterol transport.
                                         AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCCACGGTGC
                                                                                      1720 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                         1780 GGTCAGCCAGCCAGCCCAGCCCTACACCCCGGCTTCTTGAGGACTCTCTCAGGGGACAGC
                                                                                                                         GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                88
                                                                                                                                                                                                                                                                                                                                                                                                                                                Antilipemic; transgenic animal; Scavenger Receptor Class B-1; high density lipoprotein receptor; cholesterol; lipid; gene;
                                                                                                                                                                                                                                                                                                                                                                                                                        Scavenger Receptor Class B-1 coding sequence, SEQ ID
                                                                                                                                                                                                                                                      ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 3; 21pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MASI ) MASSACHUSETTS INST TECHNOLOGY.
(UYPE-) UNIV PENNSYLVANIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
51. .1580
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Krieger M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /product= "SR-BI"
                                                                                                                                                                                                                                                                                                                                       B
                                                                                                                                                                                                                                                                                                                                     AEB03942 standard; cDNA; 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95WO-US007721.
96US-00749907.
97US-00765108.
99US-00385799.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2004US-00933037
                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kozarsky K, Rigotti A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2005-457475/46.
P-PSDB; AEB03940.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US2005136005-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-JUN-1995;
15-NOV-1996;
27-MAR-1997;
30-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                            25-AUG-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-SEP-2004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-JUN-2005
                                         1660
                                                                                                                         1621
                                                                                                                                                                                1681
                                                                                                                                                                                                            1840
               1501
                                                                     1561
                                                                                                                                                                                                                                       1741
                                                                                                                                                                                                                                                                                                                                                                 AEB03942;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
                                                                                                                                                                                                                                                                                                                        AEB0394
                                                                                                                                                                                                                                                                                                          RESULT
                                                                                      셤
                                                                                                                         중 음
                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1440
                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTTCATGACACCCCGAATCCTCGCTGGAATTCTTCAGCCCCGGAGGCATGCAGGTCCATGA 1059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAGAGICIGGCATICAGAATGICAGCACCTGCAGGTITGGIGCGCCTCTGTITCTCTCCC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCAGTCACTGGGATCCCCATGAACT 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCGCAGCCAGGAGAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   540
                                                                                                           669
                                                                                                                                      909
                                                                                                                                                                                             99
                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             960
                            480
                                                      639
                                                                                                                                                                  759
                                                                                                                                                                                                                       819
                                                                                                                                                                                                                                                                             879
                                                                                                                                                                                                                                                                                                          780
                                                                                                                                                                                                                                                                                                                                    939
                                                                                                                                                                                                                                                                                                                                                                 840
                                                                                                                                                                                                                                                                                                                                                                                         999
CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 579
                                                                                                GCTCGATATTGATGGAGAGAGCCTGTGAGCCTGAAGCTGATGATGACCTTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                        GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                            GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GITCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                        GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                     TCACCATGGGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                      ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                   ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                   AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                        GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                           ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                               ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1141
                           121
                                                    580
                                                                               481
                                                                                                           640
                                                                                                                                      541
                                                                                                                                                               700
                                                                                                                                                                                            601
                                                                                                                                                                                                                       260
                                                                                                                                                                                                                                                 661
                                                                                                                                                                                                                                                                           820
                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                  880
                                                                                                                                                                                                                                                                                                                                                              781
                                                                                                                                                                                                                                                                                                                                                                                         940
                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1600
                       8
                                            원
                                                                     ઠે
                                                                                                        셤
                                                                                                                                                          셤
                                                                                                                                                                                                                 . Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
```

ö

SR-

셤 ઠે 셤 ઠ a ઠે a Š 셤 lipoprotein (LDL) -receptor, and estrogen also upregulates SR-BI in rat adrenal membranes and other non-placental steroidogenic tissues from animals treated with estrogen, but not in other non-placental non-created with estrogen, but not in other non-placental non-created place causes a decrease in blood cholesterol levels. The animal is useful as a model for designing drugs that can modulate cholesterol creating to an expenditure or inhibit the binding to and lipid movements mediated by SR-BI and redirect uptake and metabolism of lipids and cholesterol by cells. The present sequence is a coding sequence for SR-BI, which was used to illustrate the invention. Note: The SRQ ID 3 cand cholesterol by cells. The present sequence shown in ABB03939) is stated to be 1785 nucleotides in length. However, there appears to be a 1 to 3 nucleotide deletion at the end of each line of the sequence shown in the sequence listing, resulting in a sequence that is 1761 nucleotides in length. Therefore a corrected version of the sequence has been produced with Ns added to replace the missing nucleotides (the sequence shown in ABB03942). SRQ ID 3 is stated to encode SRQ ID 4 (given in ABB03940). Sequence 1785 BP; 381 A; 520 C; 465 G; 395 T; 0 U; 24 Other; 

ö 099 480 540 540 120 180 240 240 300 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360 360 420 420 480 600 900 999 720 720 721 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG 780 screckédedecerederedecerrededridedecerecredederererrinderede TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGGAGGGGGGTGCTCAAGAATG 180 ACTIGICIGICIACTICITICGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 300 9 9 ACTIGICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAAC AGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGAGAGAAGATCCCCGTCCCTTTCT CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG CGGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG 541 TCACCATGGCCAGCGTGCTTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGCTATG TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT CAGTAGTCCGGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAAGGTCAACATCA CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAAACCGCAGCCTCCATTTCCAGCCTG ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA Gaps ö Query Match 98.7%; Score 1761; DB 14; Length 1785; Best Local Similarity 98.7%; Pred. No. 0; Matches 1761; Conservative 0; Mismatches 24; Indels 0; ч \_ 19 121 121 181 241 241 301 301 361 421 481 601 661 991 61 181 361 421 481 541 601 8 셤 셤 셤 ò 8 ò 셤 ઠે 셤 ઠે 셤 ઠે g ò 셤 셤 g ठ 8 & ઠ ઠે ઠ ò

2

RESULT

1440 1440 1020 1080 1140 1200 1260 1320 1380 1380 1441 TGCGCAGNCAGGAGAAAATGCTTTTTTTTTTTGAGTGGTAGTAAAAAAGGGCTCCCCANGATA 1500 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560 cceanacrengringecaaceerecereraceaceaceaaceaaeerrerecenrece 1020 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACANAGCGGAGCAATGGGTG 1320 TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500 780 840 840 900 900 960 GCAAGCCCCTGAGCACGTTCTACACGCAGCTNGTGCTGATGCCCCAGGTTCTTCACTACG CGCAGTATGTGCTGGGACTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1681 CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCANNNCTGTCCGCACGCACGGCACATGG GGTCAGACCACCCAGTCCCTACACCCCGCTTCTTGACGACTCTCTCAGCGGACAGC GGTCAGACCAGCCAGTCCCTACACCCCGCTNNNTGAGGACTCTCTCAGCGGACAGC GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT 781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 901 AGCIGACCTACAAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC 1021 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCNCCTCTGTTTTCTCTCCC ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA ACCCCCACTTTTACAACGCCGACCCTGTTTTTCAGAAGCTGTTCTTGGTCTGAACCCTA ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT ACCCAAAGGAGCATTCCTTNTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT GITCIGIGAAGAIGCAGCIGCIACIACAICAAAICIGICAAGGCAICGGGCAAAAG GTTCTGTNAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCCATCGGGCANACAG GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTTCGAACAGAGCGGGAGCAATGGGTG ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1785 1741 ATGCCCACGCATGTGCAAAACAACTCAGGGACCNNNGACAGACC 1785 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCT 1141 1261 1621 1741 721 781 901 961 1021 1081 1081 1141 1201 1201 1261 1321 1321 1381 1381 1441 1501 1561 1561 1621 1681 841 196 유 셤 ð 셤 셤 ઠ 셤 ð 셤 ò 셤 ò g ò ò ద Š 셤 ઠે 셤 ò ŝ 셤 Š ò

769 600 829 9 889 720

```
CCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCAT 1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 UUUCCAGCCUGACAAGUCGCAUGGCUCAGAGAGUGACUACAUUGUACUGCCUAACAUCUU 300
                                            CCCCAUGAACUGUUCUGUGAAGAUGCAGCUGAGCCUCUACAAUCUGUCAAGGGCAU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGGGCAAACAGGGAAGAUCGAGCCAGUAGUUCUGCCGGUGCUGUGGGUUCGAACAGAGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1310 AGCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAUCUGCCAACUGCGCAGCAGGAAAUGCUUUUGGUUUUGGAGUGGUGGUAAAAAAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATAAAGGGCAAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCAC
                                                                                                                                                                                                                  1070 GITTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCAAUGGGUGGCAAGCCCCUGAGCACCAUCUACACGCAGCUGGUGGUGGUGAUGCCCCAGGU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTTCACTACGCGCAGTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCAT
                                                                                     CTTGGCGCTGGTCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCT
                                                                                                                                                                                                                                                          TGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACT
                                                                                                                                                                                                                                                                                                                   CAGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCA
                                                                                                                                                                                                                                                                                                                                                                          GATGTGGGCACCCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                CAGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATCTGCCAACTGCGCAGCCAGGAGAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAGGG
                                                                                                                                           GTGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCC
                                <u> GGTCCTGGGGGGCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGAAGTTGATGAC</u>
                                                                                                                                             590
                                                                                                                                                                                                  650
                                                                                                                                                                                                                                                                                                                  770
                                                                                                                                                                                                                                                                                                                                                                                                                                890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1261
                                                                                     530
                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                           710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1490
                                                                                                                                                                                                                                                                                                                                                                          830
                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                         셤
                                                                               à
                                                                                                                                             ò
                                                                                                                                                                                                8
                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                              ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method for identifying oligonucleotides with desired hybridisation properties to nucleic acid targets containing secondary structure. The method comprises amplifying a target nucleic acid having at least one accessible and one inaccessible site. Primers that form an extension product are identified as the oligonucleotides which can interact with the folded target nucleic acid. Oligonucleotides from the present invention can be used in novel detection methods for clinical diagnostic purposes, including the detection and identification of pathogenic organisms (e.g. HIV). The method allows the ability to rapidly analyse nucleic acid structures. ABL46034 to ABL46337 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGGCCAGAAGCCAGUAGUCCGGGAGCGUGGACCCUAUGUCUACAGAGGAGUUCAGACAAAA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTT 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying oligonucleotides hybridizing to nucleic acids containing secondary structure, useful in clinical diagnosis, comprises identifying primers that interact with the target to form an extension product under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTCAAGAATGTCCGCATAGACCCGAGCAGCTGTCCTTCGGGATGTGGAAGGAGATCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGTCAACATCACCTTCAATGACAACGACGCGTGTCCTTCGTGGAGAACCGCAGCCTCCA
                                                                                                                             Nucleic acid accessible hybridisation site; detection; hybridisation; characterisation; identification; nucleic acid structure; diagnosis;
                                                                                                  Mouse scavenger receptor class B type 1 mRNA sequence SEQ ID NO:285.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 6; Length 1607;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1607 BP; 366 A; 463 C; 414 G; 0 T; 364 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                          BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 90.0%; Score 1607; Dilarity 77.3%; Pred. No. 0; Conservative 364; Mismatches
                                                                                                                                                                                                                                                                                                                                                                          Dong F, Neri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 20; Fig 79B; 409pp; English.
                                                                                                                                                                                                                                                                                                                                              (THIR-) THIRD WAVE TECHNOLOGIES
                ВР
                RNA; 1607
                                                                                                                                                                                                                                                                        15-JUN-2001; 2001WO-US019401
                                                                                                                                                                                                                                                                                                   17-JUN-2000; 2000US-0212308P
                                                                                                                                                                                                                                                                                                                2001US-00212308
                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amplification conditions
                                                                                                                                                                                                                                                                                                                                                                          Lyamichev V, Allawi H,
                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-049698/06.
                standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                 WO200198537-A2
                                                                                                                                                                                                                                                                                                                  15-JUN-2001;
                                                                      26-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Sim
Matches 1243;
                                                                                                                                                                                                                                            27-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        290
                                            ABL46318
                                                                                                                                                             dene; ss
                                                                                                                                                                                      Mus sp.
```

1309

1140

ሯ 셤 ò 셤 8 g ઠે 용

1429

1260 1489

1129

1009

```
The present invention relates to a novel genetically engineered mouse, or cells derived from it, where Scavenger Receptor Class B-1 (SR-BI) gene expression or SR-BI activity has been inactivated. SR-BI is a high density lipoprotein (HDL) receptor. It was found that estrogen closuregulates SR-BI under conditions of upregulates SR-BI in rat downregulates SR-BI under conditions of upregulates SR-BI in rat adrenal membranes and other non-placental steroidogenic tissues from animals treated with estrogen, but not in other non-placental non-carefoldenic tissues Also, overexpression of the SR-BI in the hepatic tissue causes a decrease in blood cholesterol levels. The animal is useful as a model for designing drugs that can modulate cholesterol transport or that can stimulate or inhibit the binding to and lipid movements mediated by SR-BI and redirect uptake and metabolism of lipids and cholesterol by cells. The present sequence is a coding sequence for
                            1440
                                                          1669
                                                                         1560
GGGCACGGTGCTGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAA 1609
                                                                                                                     CAGCGGACAGCCCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGTCCGCACGC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SR-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New genetically engineered mouse or derivative cells with inactivated BI gene expression or activity, useful as a model for designing drugs that can modulate cholesterol transport.
               CCTGATAGCTTGGTCAGACCAGCCACCCAGTCCCTACACCCGGTTCTTGAGGACTCTCT
                                                                                                                                     #
                                                                                                                                                                                                                                                                                                                                                                                                            Antilipemic, transgenic animal; Scavenger Receptor Class B-1;
high density lipoprotein receptor; cholesterol; lipid; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                 Murine Scavenger Receptor Class B-1 coding sequence, SEQ ID 3
                                                                                                                                                                             ACGGCACATGGATGCCCACGCATGTGCAAAAACAACTCAGGGACCAG 1776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 3; 21pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MASSACHUSETTS INST TECHNOLOGY UNIV PENNSYLVANIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Krieger M;
                                                                                                                                                                                                                                                                                          BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94US-00265428.
95WO-US007721.
96US-00749907.
97US-00765108.
                                                                                                                                                                                                                                                                                          AEB03939 standard; cDNA; 1761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-SEP-2004; 2004US-00933037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kozarsky K, Rigotti A,
                                                                                                                                                                                                                                                                                                                                                     (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2005-457475/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P-PSDB; AEB03940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US2005136005-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                      25-AUG-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-JUN-1995
15-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JUN-2005
1550
                                                          1610
                                                                                                                    1670
                                                                                                                                                                                1730
                                                                                                                                                                                                            1561
                                                                                         1441
                                                                                                                                                                                                                                                                                                                      AEB03939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MASI )
(UYPE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                               gg
                                                                                                                                                                                                                                                           RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus
                                                                                                                                                                                                                                                                           AEB03939
                                                                                                                                                                                                                                                                                          유
                                                                                  셤
                                                                                                                                               요
                                                                                                                                                                                                        셤
                                                         ò
                                                                                                                  ઠ
                                                                                                                                                                                ઠે
ठे
```

```
540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
SR-BI, which was used to illustrate the invention. Note: The SEQ ID 3 given in the sequence listing (the sequence shown in AEB03939) is stated to be 1785 nucleotides in length. However, there appears to be a 1 to 3 nucleotide deletion at the end of each line of the sequence shown in the sequence listing, resulting in a sequence that is 1761 nucleotides in length. Therefore a corrected version of the sequence has been produced with Ns added to replace the missing nucleotides (the sequence shown in AEB03942). SEQ ID 3 is stated to encode SEQ ID 4 (given in AEB03940).
                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                         TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCACCATGGGCCAGCGTGCTTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661 AATTTGGCCTGTTTGTTGGGATGAACAACTCGGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCATGACACCCGAATCCTCGCAGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                               121 TCGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCTCGATATTGATGGAGAGAGAGAGAGCCTGAGAGCCTGAAGCTGATGATGACCTTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                       1 CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                        CGGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCGGCGCACGCGGACATGGGCGCA
                                                                                                                                                                                                                                                                                                                                              TCCGCATAGACCCGAGCAGCCTGTCCTTCGGAAGGAAAGGAGAATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAAGAAGAGAGATCCCCGTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 ACTTGTCTGTCTACTTCGTAGGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                      21;
                                                                                                                                                                                 Score 1582; DB 14; Length 1761; Pred. No. 0;
                                                                                                                                                       Sequence 1761 BP; 381 A; 520 C; 465 G; 395 T; 0 U; 0 Other;
                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                         98.6%; SCc. No. 0; 98.8%; Pred. No. 0; Mismatches
                                                                                                                                                                                                                        Matches 1753; Conservative
                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                        ~4
                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                        Query Match
   8$$$$$$$$$$$$$$
                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
```

Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm; cytostatic; gene; ss.

23-SEP-2004; 2004WO-US031617. 23-SEP-2003; 2003US-00669920

WO2005031001-A2 07-APR-2005

Mus sp

Morris DW, Malandro (CHIR ) CHIRON CORP

WPI; 2005-273395/28 P-PSDB; ADZ13453.

```
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                       1080
                                                                                                                                                1140
                                                                                                                                                                                          1200
                                                                                                                                                                                                                                   1260
                                                               1020
                                                                                                                                                                                                              1196
                                                                                                                                                                                                                                                                             1320
                                                                                                                                                                                                                                                                                                                       1380
                                                                             1078
                                                                                                                                                                     1137
                                                                                                                                                                                                                                                                                                                                                                 1440
                                                                                                                                                                                                                                                                                                                                                                                                          1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1606 Gercadaccadeccaceceareceracaceces---erreadeacrerereadeacade 1662
                                                                                                                                                                                                                                                        GTTCTGT-AAGATGCAGCTGAGCCTCTACATCTGTCAAGGGGCATCGGGC-AACAG 1254
                                                                                                                                                                                                                                                                                                  1313
                                                                                                                                                                                                                                                                                                                                           1314 GCAAGCCCCTGAGCACGTTCTACACGCAGCT-GTGCTGATGCCCCAGGTTCTTCACTACG 1372
                                                                                                                                                                                                                                                                                                                                                                                    1373 cécagrargrecrecr-esecrresassecrecrerrecresecearcarersecaae 1431
                                                                                                                                                                                                                                                                                                                                                                                                                    AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGTCAGACCAGCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1663 CCACCAGGCCTGAGCCCCCAGATGTCA---CTGTCCGCACGCACGCACAGG 1719
CCTTCATGACACCCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900
                                          960
                                                                                                                                                                                        ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                            ACCCAAAGGAGCATTCCTT-TTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                      GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                      .020 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGC-CCTCTGTTTTTCTCTCCC
                                                                                                                                                ACCCCCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                    Acceccacititracaacecceaecererer-reagaaecrerresreaecera
                                                                                                                                                                                                                                   GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                            GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                1255 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGCTTCGAACA-AGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                         TGCGCAGCCAGGAGAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGCCCACGCATGTGCAAAACAACTCAGGGACC 1753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATGCCCACGCATGTGCAAAACAACTCAGGGACC 1774
                                                                                                                                                                   1079
                                                                                                                                                                                                                                                                                                                                                                                                         1441
                     901
                                        901
                                                            961
                                                                                 961
                                                                                                      1021
                                                                                                                                               1081
                                                                                                                                                                                         1141
                                                                                                                                                                                                             1138
                                                                                                                                                                                                                                  1201
                                                                                                                                                                                                                                                      1197
                                                                                                                                                                                                                                                                            1261
                                                                                                                                                                                                                                                                                                                      1321
                                                                                                                                                                                                                                                                                                                                                                1381
                                                                                                                                                                                                                                                                                                                                                                                                                             1432
                                                                                                                                                                                                                                                                                                                                                                                                                                                  1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 12
                     ò
                                                           ò
                                                                               셤
                                                                                                      ð
                                                                                                                         셤
                                                                                                                                                                   셤
                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                               ઠે
                                                                                                                                                                                         ð
                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                         ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

Nucleic acid array useful for detecting cancer associated nucleic acid, comprises two or more nucleic acid probes.

Disclosure; SEQ ID NO 972; 198pp; English.

```
The invention relates to a nucleic acid array for detecting a cancer associated (CA) nucleic acid, comprising two or more nucleic acid probes. The invention also relates to a peptide array comprising two or more isolated polypeptides encoded by a CA nucleic acid sequence, a compound that binds to a polypeptide, an isolated antibody or its fragment which binds to a polypeptide, which is prepared by immunizing a host animal with a composition comprising the polypeptide expressing antibodies against fragment and collecting cells from the host expressing antibodies against the antigen or its antigen binding fragment, a composition comprising the antibody and a carrier, a method of sorreming for anticoncer activity, a method of treating cancer and a method of inhibiting expression of a CA nucleic acid, a method of diagnosing cancer, a method of treating cancer and a method of inhibiting expression of a CA nucleic acid are useful for detecting CA nucleic acid in a cell. The CA nucleic acids are useful for detecting calce acid in a cell. The CA nucleic acids are useful for detecting calce acids. The antibody is useful for detecting a complex of a CA protein from the cancer cells in a individual which involves contacting cells from the individual or for delivering a therapeutic agent to cancer cells in an individual or for delivering a lexagence of cancer cells in an individual. The invention is also useful for diagnosing cancer, for treating cancer and for inhibiting expression of a CA gene in a cell. This sequence represents murine cancer-associated cDNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 ACTIGICIGICIACTICITGAAGIGGICAACCAAACGAGGICCICAACGGCCAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  280 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 160 ccercicircaeerccieaecccceaeaecccriceececaceceaearaeeceaea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           340 recedanadacecedacedecrerecerrecedanciedadedacarecerrer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels 129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 1517; DB 14; Length 2382;
Pred. No. 0;
0; Mismatches 0; Indels 129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2382 BP; 486 A; 720 C; 626 G; 550 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 85.0%;
Best Local Similarity 92.8%;
Matches 1656; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nvention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
```

g 8

8

Murine cancer-associated cDNA #108

16-JUN-2005 (first entry)

ADZ13452

ADZ13452 standard; cDNA; 2382

ADZ13452

```
TGCGCAGCCAGGAGAAATGCTTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA 1500
  1480 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG 1539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Predicting a toxic effect of a compound, useful in identifying toxicity arkers in liver tissues or calls for drug screening and toxicity assays, comprises preparing gene expression profile of tissue or cells exposed to the compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to a method for predicting a toxic effect of a compound. The method comprises preparing a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the
                                                                                                                                                                                                                                           1651 GGTCAGACCAGCCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGGGGACAGC
                                                                                                                             1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                       ------AGGTCCTGAAGACACTATAAGCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                1561 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Elashoff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Toxic; toxin; gene expression profile; hepatotoxicity; liver; drug screening; toxicity assay; ds.
                                                                                                                                                                                                                                                                                                                                               1771 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1815
                                                                                                                                                                                                                                                                                                                                  ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Castle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Higgs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 3642; 1156pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Poxicity-related gene, SEQ ID 3642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Χ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Johnson
                                                                                                                                                                                                                                                                                                                                                                                                                       BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002US-00060087.
2002US-0364045P.
2002US-0364055P.
2002US-0436643P.
                                                                                                                                                                                                                                                                                                                                                                                                                       2497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-JAN-2003; 2003WO-US003194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
                                                                                                    1600 TĠĊĠĊĀĠĊĊ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Porter M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-689530/65.
                                                                                                                                                                                                                                                                                                                                                                                                                       ADB58616 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003064624-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-JAN-2002; 2
15-MAR-2002; 2
15-MAR-2002; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mendrick D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-AUG-2003
                                                                             1441
                                                                                                                                                                                                                                                                                                                                  1741
                                                                                                                                                      1609
                                                                                                                                                                                                       1609
                                                                                                                                                                                                                                1621
                                                                                                                                                                                                                                                                                1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                ADB58616;
                                                                                                                                                                                                                                                                                                                                                                                              RESULT 13
ADB58616
                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                  셤
                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                        셤
                       ठे
                                                셤
                                                                          8
                                                                                               a
                                                                                                                            8
                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                960
                                                                                                                                                                                           540
                                                                                                                                                                                                                                           600
                                                                                                                                                                                                                                                                                             099
                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                              780
                                                                                                                                                                                                                                                                                                                                                                                                                      939
                                                                                                                                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                        360
                                                                519
                                                                                         420
                                                                                                                579
                                                                                                                                          480
                                                                                                                                                                   639
                                                                                                                                                                                                                   669
                                                                                                                                                                                                                                                                    759
                                                                                                                                                                                                                                                                                                                     819
                                                                                                                                                                                                                                                                                                                                                                     879
               459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGGGGCATGCAGGCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGTCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTTCTGTGAAGATGCAGCTGCAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTCATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                        GCTCGATATTGATGGAGGAAGCCTGTGAGGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                          TCACCATGGGCCAGCGTGTTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                              AATTIGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                             GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                           GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                               cerreaargacaacaccererecrreergaaaaccecaecerecarrecageere
                                                                                                                                                                                                                                           TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                             ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                          ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                           AATTIGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTATTGGCATTCAGAGCAGTGTAACATGATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                   ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                           GCTCGATATTGATGGAGAGCCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                       CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCA
                                                                                       CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                          ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                460
                                                                                                               520
                                                                                                                                                                  280
                                                                                                                                                                                           481
                                                                                                                                                                                                                   640
                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                    700
                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                     260
                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                       820
                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                      880
                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
               400
                                      301
                                                                                         361
                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 8 8
               음 중
                                                         ద
                                                                                       8 8
                                                                                                                                       ò
                                                                                                                                                              셤
                                                                                                                                                                                        8
                                                                                                                                                                                                            쉽
                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                               쉽
                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ૪
```

Ξ

```
differential expression of the gene indicates at least one toxic effect.

The method is useful for predicting at least one toxic effect.

The method is useful for predicting at least one toxic effect of a compound, predicting hepatotoxicity or the progression of a toxic effect of a compound, identifying an agent that modulates the onset or progression of a toxic response, predicting the cellular pathways that a compound modulates in a cell, and identifying an agent that modulates at least one activity of a protein. The method and compositions of the present invention using a database of genes having liver toxin-induced differential expression, are useful in identifying toxicity markers in liver tissues or cells for drug screening and toxicity assays. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO of the wipo int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATTIGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCGGCGTTATCATGATTCTCATGGTGCCCTCGCTCATCAAGGCAGCAGGTGCTCAAGAATG 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rccecaragaccccaeccaeccrerecrirregarieregaagarcccrerrer 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGTAGTCCGGGAGCGCGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCA 512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACAGGTCCCAGGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCCTGGTCCTGGGAG 632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGAAATGGAACGGACTCAGCAAGATCG 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGTCCAGAATTTCAGCAAGATCCATCTGGTGGATAAGTGGAACGGCCTCAGCGAGGTCA 932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACTIGICATOR CTACTICITION OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGCAGTGATGATGAGGAGGAGGAGGACCACAAGCCCTGAAGCTGCTAATGACCTTGGGGTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAGATCCCTTTGTGAATTTCCTCAGCAAATATTTCCCAGACATGTTCCCCATCAAAGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ccercecerreagerecreageceaacreaceaececeeececaecareagecerea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCGATATTGATGGAGGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AATTTGGCCTGTTCGTTGGGATGAACGACTCGAGTTCTGGCGTCTTCACCGTCTTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 1459.4; DB 10; Length 2497;
Pred. No. 0;
0; Mismatches 161; Indels 0; (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2497 BP; 549 A; 731 C; 662 G; 555 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           81.8%;
90.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match. 81.8
Best Local Similarity 90.6
Matches 1556; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
          888888888888888888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 đ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ጵ
```

셤

ò 셤 ò

8 셤 ŝ 셤 ò 원 ð g

```
The present invention describes a method for determining whether a compound induces a toxic effect on a tissue or cell. The method comprises preparing a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the gene expression profile to a database comprising data or information on the Tox mean and non-Tox mean value. The method is useful for predicting or identifying at least one toxic effect, particularly hepatotoxicity, of a test or unknown compound. The genes listed in the specification are useful as diagnostic or toxicity markers for the prediction or identification of the physicalogical state of tissue or cell sample that has been exposed to a compound, or to identify or predict the toxic effects of a compound or an agent. These may also be used as markers for monitoring toxicity progression or for drug accreming. The present sequence represents a primary rat hepatocyte toxicity modelling related gene sequence from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Determining if a compound induces a toxic effect on a tissue or cell, for identifying hepatotoxic compounds, comprises comparing a gene expression profile of a tissue or cell sample to a database of Tox mean and non-Tox
                             toxic effect; gene expression profile; hepatotoxicity; diagnostic marker; toxicity marker; toxicity progression; drug screening; primary rat hepatocyte toxicity modelling; gene; ds.
rat hepatocyte toxicity modelling related gene SEQ ID NO:3806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Orr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2497 BP; 549 A; 731 C; 662 G; 555 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Castle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Higgs B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 44; SEQ ID NO 3806; 874pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Porter M, Johnson K,
                                                                                                                                                                                                                                             2002US-0363534P.
2002US-0371134P.
2002US-0371135P.
2002US-0371136P.
2002US-0371136P.
2002US-0373602P.
2002US-0373602P.
2002US-0373602P.
2002US-0373602P.
2002US-0373602P.
2002US-0373602P.
2002US-0373602P.
2002US-0378653P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002US-0394253P.
2002US-0407688P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2003US-0442900P
                                                                                                                                                                                               04-FEB-2003; 2003WO-US003482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GENE-) GENE LOGIC INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-731472/69
                                                                                                   Rattus norvegicus.
                                                                                                                                WO2003065993-A2
                                                                                                                                                                                                                                                                                                              10-APR-2002;
11-APR-2002;
19-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                            22-APR-2002;
08-MAY-2002;
09-MAY-2002;
09-MAY-2002;
09-MAY-2002;
                                                                                                                                                                                                                                             13-MAR-2002;
08-APR-2002;
10-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                19-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-JAN-2003;
                                                                                                                                                                                                                                                                                               10-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mean values
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ω̈́
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mendrick |
Elashoff |
```

g ò ď ò 셤 ò g ò 셤 ઠે 셤

ò

ò 셤 셤 ò 셤

ઠે

g Š 셤

ö

0; Gaps

81.8%; Score 1459.4; DB 10; Length 2497; 90.6%; Pred. No. 0;

0; Mismatches 161; Indels

Best Local Similarity 90.6 Matches 1556; Conservative

Query Match

ò

```
212
9
                           CGTCCCCTTCAGGTCCTGAGCGACTCTCGGCCGCGCACGCGGACATGGGCGTCA
CCGTCTCCTTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCGCACGCGGACATGGGCGGCA
```

유 ઠે

ઠે

61

1112 1233 AGCCCCACTTCTACAATGCTGACCCCGTGCTGTCAGAAGCTGTTCTTGGTCTGAACCCTG 1292 780 840 900 272 392 300 360 420 480 692 900 752 99 812 720 872 992 452 572 632 1053 AGCTCACCTACCAGGAATCAAGGGTGTTCGAAGGCATCCCCACTTATCGCTTCACGGCCC ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGTCCACTGGGATCCCCATGAACT 273 TCGGCGTTATCATGATTCTCATGGTGCCCTCGCTCATCAAGCAGCAGGTGCTCAAGAATG 813 AATTTGGCCTGTTCGTTGGGATGAACGACTCGGGTTTTTGGCGTCTTCACAG 933 ACTATTGGCATTCGGAACAGTGCAACATGATCAATGGTACTGCCGGGCAGATGTGGGCAC CCGATACTCTGTTTGCCAACGGGTCTACCCACCCAAGGAGGCTTCTGCCCATGCC ACCCCACITITACAACGCCGACCCIGIGITGICAGAAGCIGITCITGGICIGAACCCIA 333 TCCGCATAGACCCCAGCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCCTTCT CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG ACAAGTCGCATGGCTCAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG 573 ACAGGTCCCAGGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCCTGGTCCTGGGAG 693 reaccardadecadecadecrirrardaaccacacarragardaracarrandadecraea 753 AAGATCCCTTTGTGAATTTCCTCAGCAAATATTTCCCAGACATGTTCCCCATCAAAGGCA GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG 781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 841 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA CAGTAGTCCGGGAGCGCGGACCCCTATGTCTACAGGAGTTCAGACAAAAGGTTAACATCA GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG egecagicaridaredadescadadecentaadecreeraareacerrideerride TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAAGGAGATCCCCGTCCCTTTCT ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 241 393 301 453 513 421 633 993 196 1081 1141 213 121 181 361 481 541 601 661 721 901 1021

```
453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                        ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                      1320
                                                                                                                            1440
                                                                                                                                                               1500
                                                                1592
                                                                                                                                                                                                  1560
                                                                                                                                                                                                                                     1620
                                                                                                                                                                                                                                                      1772
                                                                                                                                                                                                                                                                          1680
                                                                                       GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG 1380
                                                                                                          1532
                                                                                                                                                                                                                                                                                  GGTCAGACCAGCCCCCAGTCCCTACACCCCACTTCTCGAGGACTCTCTCAGCGGACAAC 1832
ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCACCCGGTCACTGGGATCCCCATGAACT 1352
                                                                                                                                                                                1652
                                                                                                                                                                                                                  AGGAGGCCATGCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTAC 1712
                                                                                                                                                                                                                                                                                                                                                                                                                                               Toxic effect; gene expression profile; renal toxicity; toxicity marker; database; drug screening; toxicity assay; rat; ds.
                                                                                                                                                                                                                                               GTTCCGTGAAGATGCAGCTGAGTCTGTACATCCATAAATCCGTCAAGGGCGTCGGGCAAACAG
                                                                                                    GCAAGACCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                          CGCAGTATGTGCTGCTGCGGGCTTGGAGGCCTCCTGTTGCTGCTGCCCATCATCTGCCAAC
                                                    cécadrargrecrecresescriregassecricerecrireresesceareceare
                                                                                                                                                              TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA
                                                                                                                                                                               1593 TGCGCAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAAAAAAGGGCTCGCAGGATA
                                                                                                                                                                                                 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                    TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                        GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTGAGGGGACAGC
                                                                                                                                                                                                                                                                                                                      CGCCAGTGCCACGTCCTGAGCCCCCAGATGTCACAC 1869
                                                                                                                                                                                                                                                                                                            CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACAC 1717
                                                                                                                                                                                                                                                                                                                                                                                                                             Toxicity modelling related rat gene SEQ ID No 1909.
                                                                                                                                                                                                                                                                                                                                                                         ABT42207 standard; DNA; 2497 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-0292335P.
2001US-0297523P.
2001US-0298925P.
2001US-0303807P.
2001US-0303808P.
2001US-0303810P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001US-0324928P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001US-0331805P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001US-0336144P
2001US-0340873P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001US-0330867P
                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200295000-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-JUL-2001;
10-JUL-2001;
10-JUL-2001;
28-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                            26-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1-NOV-2001
                  1201
                                                    1261
                                                                      1413
                                                                                        1321
                                                                                                        1473
                                                                                                                           1381
                                                                                                                                             1533
                                                                                                                                                              1441
                                                                                                                                                                                                 1501
                                                                                                                                                                                                                  1653
                                                                                                                                                                                                                                    1561
                                                                                                                                                                                                                                                      1713
                                                                                                                                                                                                                                                                        1621
                                                                                                                                                                                                                                                                                          1773
                                                                                                                                                                                                                                                                                                            1681
                                                                                                                                                                                                                                                                                                                             1833
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-NOV-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3-JUN-
                                                                                                                                                                                                                                                                                                                                                        RESULT 15
                                                   ò
                                                                     셤
                                                                                        8
                                                                                                      a
                                                                                                                           ઠે
                                                                                                                                           셤
                                                                                                                                                                              셤
                                                                                                                                                                                                8
                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                        ò
```

```
The invention relates to a novel method of predicting at least one toxic effect of a compound. The method comprises a gene expression profile of a tissue or cell sample exposed to the compound, and comparing the gene expression profile to a database comprising at least part of the data or information given in the specification. The methods are useful for predicting at least one toxic effect of a compound, predicting the progression of a toxic effect of a compound, predicting the progression of a toxic effect of a compound, predicting the renal toxicity of a compound, or identifying toxicity markers in tissues or cells exposed to known renal toxin. The genes are useful as toxicity markers in drug screening and toxicity assays, in monitoring disease or physiological states, or disease progression. This polynucleotide represents a rat DNA sequence relating to the toxic effect database described in the specification. NOTE: The sequence edata for this patent did not form part of the printed specification, but was obtained in control of the printed specification, but was obtained in the specification and property
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Predicting at least one toxic effect of a compound, useful for toxicit; modelling, comprises preparing a gene expression profile of a tissue or expression ample exposed to the compound, and comparing the gene expression profile to a database.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                273 TCGGCGTTATCATGATTCTCATGGTGCCCTCGCTCATCAAGAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      153 CCGTCCCCTTCAGGTCCTGAGCCCAGCGACTCTCGGCCGCGCACCACGCGGACATGGGCGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGCTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTIGICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  393 ACTIGICCGTCTACTTCTCCGAGGTCGACCCCCAGCGAGGTCCTAAATGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCGCATAGACCCGAGCAGCCTGCCTTCGGGATGTGGAAGGAGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCCGCATAGACCCCAGCAGCCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGTAGTCCGGGAGCGCGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Elashoff M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81.8%; Score 1459.4; DB 10; Length 2497; 90.6%; Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2497 BP; 549 A; 731 C; 662 G; 555 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches 161; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Castle A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Higgs B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Johnson K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 4; Page; 446pp; English.
21-FEB-2002; 2002US-0357842P.
21-FEB-2002; 2002US-0357843P.
21-FEB-2002; 2002US-0357844P.
15-MAR-2002; 2002US-0364134P.
08-APR-2002; 2002US-0310144P.
08-APR-2002; 2002US-03702U4F.
                                                                                                                                                                                                                                                   08-APR-2002; 2002US-0370247P
17-APR-2002; 2002US-0372794P
21-APR-2002; 2002US-0371679P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 90.6
Matches 1556; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                             (GENE-) GENE LOGIC INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mendrick D, Porter M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-148464/14.
```

ö

212

420

572

392

21 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGG 480 	81 GCTCGATATTGATGGAGGAGCCAGGAGCCTGAAGCTGATGATGACCTTGGCGCTGG 540	41 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG 600	01 AGGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 660		CGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAATGGAACGGACTCAGCAAGATCG 780 	BI ATTATTGCATTCAGACGATGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 840 	141 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900	001 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC 960	161 CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC 1020	21 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC 1080	181 ACCCCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140	141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT 1200	01 GITCIGIGAAGAIGCAGCIGAGCCICTACAICAAAICTGICAAGGGCATCGGGCAAACAG 1260 	161 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGAGC	121 GCAAGCCCTGAGCACGTTCTACACGCAGCTGCTGATGCCCCAGGTTCTTCACTACG 1380	81 CGCAGTATGTGCTGGCGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCCAAC 1440	441 TGCGCAGCAGGAGAAATGCTTTTTGTATTTGGAGTGGTAGTAAAAAGGGGTCCCAGGATA 1500
ч е	н е	4 E				3 1					A-AG	н ю	дε	<b>π</b>	- m		41

8 8 8 8

6 8 6 8 6 8 6

8 6 8 6 8 6 8 6 8 6

	1561 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT 1620 		1681 CCACCAGTGCCATGACCCCCAGATGTCACAC 1717 	
AGGAGGCC          AGGAGGCC	rgcaagaa         rgcaagaa	GGTCAGAC         GGTCAGAC	ccaccagn          cceccagn	
1501	1561	1621	1681	
& q	& A	රු සි	oy Op	

Search completed: February 23, 2006, 18:39:39 Job time : 1082.59 secs

```
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
```

OM nucleic - nucleic search, using sw model

Pebruary 23, 2006, 17:45:57 ; Search time 7281.38 Seconds
(without alignments)
11469.657 Million cell updates/sec Run on:

Title: Perfect score: Sequence:

US-08-765-108-7
1785
1 CCGTCTCTTCAGGTCCTGA.....TCAGGGACCAGGGACAGACC 1785

IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

41078325 segs, 23393541228 residues Searched:

82156650 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

EST:\* Database :

9b est1: \*
9b est2: \*
9b est4: \*
9b htc: \*
9b est5: \*
9b est6: \*
9b est7: \*
9b est7: \*
9b est7: \*
9b est7: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

	dю				
Query Score Match		Query Match Length DB	08	ID	Description
1785 100.0		2441	4	AK033114	AK033114 Mus muscu
1785 100.0		2497	4	AK028191	AK028191 Mus muscu
1513.8 84.8		2310	4	AK010622	
1364 76.4		1364	10	AY412682	AY412682 Mus muscu
959 53.7		2751	4	BC022087	BC022087 Homo sapi
957.4 53.6		2515	4	CR607701	CR607701 full-leng
52.8		1364	10	AY412680	AY412680 Homo sapi
47.8		902	Ŋ	BU517714	BUS17714 AGENCOURT
46.0		879	٣	BI651436	BI651436 603298176
802.2 44.9		979	'n	BQ917716	BQ917716 AGENCOURT
44.9		1364	10	AY412681	AY412681 Pan trool
44.3		907	7	BI218548	BI218548 602938062
763.2 42.8		838	0	BG870988	BG870988 602792027
42.5		987	ო	BI410841	BI410841 602963757
		883	m	BI854754	BI854754 603381709
		814	(4	BI249128	BI249128 602992465
40.8		992	٣	BI330909	BI330909 602983203
		802	7	BI159464	
40.1		765	7	CK031774	CK031774 AGENCOURT
708 39.7		792	7	CK128415	CK128415 AGENCOURT
700.2 39.2		837	m	BI872207	BI872207 603396535
693,6 38.9		824	7	BG921302	BG921302 602824148

BI327672 602979182	CO432282 UI-M-HX0-	BQ947347 AGENCOURT	BM553238 AGENCOURT			BI079037 602873305	BG519503 602577778	AI323064 mj57c02.y	AI037085 ue19b11.y	BF533326 602073786		_	CK023231 AGENCOURT	BG965924 602829714	BQ877329 AGENCOURT	CO425633 UI-M-HU0-	CF900992 A0322E06-		BI328695 602984633	BI332830 602985640	BQ670423 AGENCOURT	RF151308 11214F08 V
BI327672	CO432282	BQ947347	BM553238	BI663520	BF235778	BI079037	BG519503	AI323064	AI037085	BF533326	BI145538	CX220978	CK023231	BG965924	BQ877329	CO425633	CF900992	CF901018	BI328695	BI332830	BQ670423	RF151308
94 3	704 7	18 5	1088 3	842 3	35 2	740 2	830 2	43 1	771 1	09 2	53 2	55 8	19 7	23 2	68 5	28 7	18 7	18 7	36 3	19 3	913 5	561
38.6 7	38.3	38.2			36.5 8		36.1 8					35.3 6			34.9	34.8 7			34.3 6			33.7
689.2	683.2	681	670.8	929	652.4	651.4	644.8	640.4	638	635.6	634.2	630.4	627.8	625.8	623.2	620.4	616.4	616.4	612.4	8.909	604.8	601.2
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	4.5

## ALIGNMENTS

```
328
                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                                 61
                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         961
                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                        QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                 ሯ
                                                                                                        셤
                                                                                                                                                  ò
                                                                                                                                                                                셤
                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                             G. (Dabes 1 to 2441)

Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
Hayashida, K., Hayatsu, N., Hiramcot, T., Hirackar, T., Hirozane, T.,
Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
Kaya, S., Kurihara, C., Matsuyama, T., Miyazaki, M., Murata, M.,
Nakamura, M., Nishi, K., Nomura, K., Nimazaki, R., Ohno, M., Ohato, N.,
Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Takaki, T.,
Sogabe, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, T.,
Iakeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
Muramacteu, M. and Hayashizaki, Y.
Direct Submission
Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research Group, RIKEN Genomic Sciences Center (GSC),
RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
Kanagawa 230-0045, Japan (E-mail:genome-res@ggc.tiken.jp,
UKL:http://genome-gsc.riken.jp/, Tel:81-45-503-9222,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / LTAIN 1 A LI OLD = "MOGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNV
RIDPSSLSFGWWKEIPVYREFROKVN
RIDPSSLSFGWWKEIPVYREFROKVN
RIDPSSLSFGWWKEIPVYREFROKVN
RIDPSSLSFGWWKEIPVYREFROKVN
LALVTWGQRAFWNFYLSTYRFYDPFYHFLATYLEDMLFIKGKFGLFVGMNRSNSGY
FTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFS
PRACKSMKLTYNBSRYPEGIPTYRFTAPDTLFANGSYYPPWGFCPCRESGIQNVSTC
REAPLIFLSHPHFYNADPVLSRAVLGIANPNFEHSLFILDHPYTGIPMVCSYWMQLSI
YIKSYKGIQGTGKIEPVLDLWFEDSGGAMGGKPLSFTDLHPYTGIPMVCSYWMQLSI
YKKSYKGIQGTGKIEPVLDLWFEDSGGAMGGKPLSFTTOLNUMPQVLHYAQYVLLG
LGGLLLLLVPIICQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESIMSPAAKGTVLQGAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue type="testis"
/clone lib="RIKEN full-length enriched mouse cDNA library"
/dev_stage="15 days embryo"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="unnamed protein product; putative
scavenger receptor class B1 (MGD]MGI:893578, GB|NM_016741,
evidence: BLASTN, 100%, match=2496)"
Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 1785; DB 4; Length 2441; 100.0%; Pred. No. 0; cive 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prepare mouse tissues.
Please visit our web site for further details.
URL:http://genome.gsc.riken.jp/
URL:http://fantom.gsc.riken.jp/
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |db_xref="FANTOM_DB:8030433C21"
|db_xref="taxon:10090"
|clone="8030433C21"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /codon_start=1
/proteIn_id="BAC28157.1"
/db_xref="G1:26328837"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mol_type="mRNA"
/strain="C57BL/6J"
                                                               Nature 420, 563-573 (2002)
6 (bases 1 to 2441)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2421. .2426
/note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2441
/note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .2441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polyA_signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polyA_site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                    TITLE
JOURNAL
                                                                                       REFERENCE
AUTHORS
                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                         TITLE
```

ö

Gaps ; 0 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA 60

Matches 1785; Conservative

à

```
1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  988 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC 1047
                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  960
                              147
                                                                                                                                                                                                                                            267
                                                                                                                                                                                                                                                                                                                                                      327
                                                                                                                                                                                                                                                                                                                                                                                                                                                             387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     807
88 CGGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACACGGGGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1081 ACCCCCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAAACCCTA
                                                                                                                                                                                                                                                                                                                             268 TCCGCATAGACCCGAGCCAGTCTTCTGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          748 AATTTGGCCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         808 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGAAATGGAACGGACTCAGAAGGTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  868 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             928 cerreargacaccegaarceregeragaarrerreagecegaageargeagerecarga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              148 Gerecadededecrederedecrigederredececeredecrererringerede
                                                                                                                                                                                                                                            208 redecerrereardarecrearderecerecereareageageagerecreaagaare
                                                                                                                                                                                                                                                                                                                                                                                                           241 ACTIGICTGICTACTICTICGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTIGICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    388 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTTCAATGACAACGACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          568 GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       628 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              688 ACGAICCCITCGIGCAITITCICAACACGIACCICCCAGACAIGCITCCCAIAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661 AATTTGGCCTGTTTGTTGGGATGAACAACTCGGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCTGACCTACAACGAATCAAGGCTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                             TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                 181 TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            448 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTCGATATTGATGGAGGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
```

1148 ACCCOACTUTINGANGCCCACCCTUTINGANGCCTTCTTCACAACCCCTACAACCCCACCCACCCACCCAC	Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P., Korno,H., Akiyama,J., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Harada,A., Yamamoto,R., Matsunco,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Warahiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Muramatsuu,M., Inoue,Y., Kira,A. and Hayashizaki,Y. RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer Genome Res. 10 (11), 1757-1771 (2000)  4 The RIKEN Genome Exploration Research Group Phase II Team and the Funtonal annotation of a full-length mouse cDNA collection Nature 409, 685-690 (2001)	he FANTOM (roup Phase nalysis of fe 60,770 f. dature 420, (bases 1 dachi,J., Aukuda,S., Eayashida,K. arch,H., Ke oya,S., Kun akamura,M., kacaaki, Sa. arch,H., Sa	Direct Submission Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Sushiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (8-mail:genome-res@gsc.riken.jp, VRL:http://genome.gsc.riken.jp/, Tel:81-45-503-922, Fax:81-45-503-9216) Excyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.	•	/clobe libs = KikKBN tull.length enriched mouse cDNA library" /dev_stage="10 days embryo" 1941723 /note="unnamed protein product; putative scavenger receptor class B1 (MGD MG1:893578, GB NM_016741, evidence: BLASTN, 100%, match=2496)" /codon start=1 /protein_al="BAC25802.1" /db_xref="del:26389860" /translation="MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNV RIDBSSLSFGWWKEIPVVFFEVVNPNEVLNOKEVVRERGBYVYREFRQKVN ITFNDNDTVSFVERNELHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMT
141 ACCCAACTATACAACCCCGACCCTGGTGTTGTCAACACGTCTTCTGGTCTGAACCTTTACAACGACACCCTGTGAACTTTACAACGACACTCCTTCTCTACACTCTTCTCTACACTCTTCTCTCTACACTCTTCT	REFERENCE AUTHORS TITLE JOURNAL PUBMED REFERENCE AUTHORS TITLE JOURNAL OUNNAL	ATHORS TITLE JOURNAL REFERENCE AUTHORS	<b>∢</b> ,	PEATURES	<b>8</b>
141 ACCCAACTATACAACCCCGACCCTGGTGTTGTCAACACGTCTTCTGGTCTGAACCTTTACAACGACACCCTGTGAACTTTACAACGACACTCCTTCTCTACACTCTTCTCTACACTCTTCTCTCTACACTCTTCT			· · · · · · · · · · · · · · · · · · ·		
	ACCCCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCGGTCACTGGGATCCCCATGAACT	CGCAGTATGTGCTGGGGCTTTGGAGGCCTCGTGGTGGTGCCCATCATCTGCCAAC  [	GGTCAGACCAGCCACCCAGCTCCCTACACCCGGCTTCTTGAGGACTCTCTCAGGGGACAGG CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACACTGTCTGCGCACGGCACATGG		Carninci,P. and Hayashizaki,Y. High-efficiency full-length cDNA cloning Meth. Enzymol. 303, 19-44 (1999) 20149636 21 Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Carninci,P., Shibata,Y., Muramatsu,M. and Hayashizaki,Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome Res. 10 (10), 1617-1630 (2000)

1103

```
2310 bp mRNA linear HTC 03-APR-2004 cells cDNA, RIKEN full-length enriched library, product:scavenger receptor class B1, full insert
                984 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 1043
                                                                                                                                                                                                                                                 ACCCCCACTITIACAACGCCCACCCIGIGITGICAGAAGCIGITCTIGGICIGAACCCTA 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1404 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1464 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGCTGATGCCCCAGGTTCTTCACTACG
                                                                         1104 CCGATACTCTGTTTGCCAACGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                     1344 GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCGCAGCCAGGAGAAATGCTTTTTTTTTTGAGTGGTAGTAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCGCAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGTCAGACCACCCCAGTCCCTACACCCCGGTTCTTGAGAACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGGGACAGC
                                                                                                                        CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                    GAGAGICTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                              ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCCATGAACT
                                                                                                                                                                                                                                                                                                                               ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                   GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1704 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                    GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                 ACCCCCACTITITACAACGCCGACCCTGTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCAGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GI:12846195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AK010622
Mus musculus ES c
clone:2410030L01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence.
AK010622
AK010622.1
                                                                                           1044
                                                                                                                                                                                                                  1164 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1644
                                                                                                                                                                                                                                                                                                                                           1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1764
                                                                                                                                                                                    1021
                                                                                                                                                                                                                                                 1081
                                                                                                                                                                                                                                                                               1224
                                                                                                                                                                                                                                                                                                               1141
                                                                                                                                                                                                                                                                                                                                                                         1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1741
                                                             901
                                                                                                                        961
                                                                                                                                                                                                                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 3
AK010622
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                           심
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                        임
                                                                                     셤
                                                                                                                                               셤
                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  원
                                                           ઠે
                                                                                                                ठे
                                                                                                                                                                                    δ
                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
           FTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFS
PEACRSMKLTYNESRYFEGTPTYRFTAPDTLFANGSYYPPNEGFCPCRESGTQNVSTC
READLFLSHPHFYNADPPLSBAVLGLNPNPKEHSLFLDIHPVTGIPMNCSYKMQLSL
YIKSVKGIGQTGKIEPVVLPLLWFEDSGAMGGKPLSFFTQLVLMPPOYLHYAPYDLL
LGGLLLLVPIICQLRSQEKCPLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVQLAL
LALVTMGQRAFMNRTVGEILWGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNSNSGV
                                                                                                                                                                                                                                 ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                              203
                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                         263
                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                     323
                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        983
                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCGGCGTTGTCATGATCCTCATGATGCCCTCCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCGCCGTTGTCATCATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACTIGICIGICIACITCITCGAAGIGGICAACCCAAACGAGGICCICAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTIGICTGTCTACTICTGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCAATGACAACGACACCGTGCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCGATATTGATGGAGGCCAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                               CCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                    Length 2497;
                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                     4;
                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                    <u>D</u>B
                                                                                                                                                                                                score 1785; Ipred. No. 0;Mismatches
                                                                                                                  /note="putative"
2497
                                                                                                                                                       /note="putative"
                                                                                                                                                                                                  100.0%;
100.0%;
                                                                                                                                                                                               Query Match
Best Local Similarity 100.
Matches 1785; Conservative
                                                                                                                                                                                                                                                               CCGTCTCCTTCAGGT
                                                                                                        2477.
                                                                                                          polyA_signal
                                                                                                                                     polyA_site
                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                        204
                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                     264
                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      924
```

8 8 8 8 8

ઠે ద 중 점 g

ઠ a ઠે 셤

장 웜

8

8 & 8

중 음

ठ व ठ

g δ 8

1320

1463

1440

1703

1763

S

SOURCE

**(EYWORDS** 

REFERENCE AUTHORS TITLE

JOURNAL PUBMED REFERENCE AUTHORS REFERENCE AUTHORS

JOURNAL PUBMED

TITLE

```
GAGAGAGAGATTCTCGAGTTAATTAAATCCCCCCCCCC 3']. cDNA was cleaved with XhoI and SstI. Cloning sites, 5' end: XhoI; 3' end: SstI. Host: SOLR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /protein_id="Bab27068.1"
/db_xref="G1:12846196"
/db_xref="G1:12846196"
/tb_xref="G1:12846196"
/tb_xref="G1:12846196"
/tb_xref="G1:12846196"
/tb_xref="G1:12846196"
/tb_govvref="G1:12846196"
/tb_govvref="G1:12846196"
/tb_govvref="G1:12846196"
/tb_govvref="G1:12846196"
/tb_govvref="G1:12846196"
/tb_govvref="G1:12846196"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PEACRSMKI TYNESRVFEGI PTYRFTAPDTI FANGSVYPPNEGFCPCRESGI QNVSTC
RFGAPLFLSHPHFYNADPVLSEAVLGI.NPNPKEHSLFLDI HPVTGI PMNCSVKMQLSI
YI KFVKGI GQTGKI EPVVLPILMFEQSGAMGGKPLSTFYTQLVI.MPQVLHYAQYVI.LG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LALVTMGQRAFMNRTVGEILWGYDDPFVHFLNTYLPDMLPIKGKFGLFVCMNNSNSGV
PTVFTGVQNFSRIHLVDKMNGLSKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFS
                                                                                                                                                                                                                                                                                                              /db_xref="FANTOM DB:2410030L01"
/db_xref="taxon:10090"
/db_xref="taxon:10030L01"
/cell_type="ES cells"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
138. .1658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note="unnamed protein product; putative
scavenger receptor class Bl (MGD|MGI:893578, GB|NM_016741,
evidence: BLASTN, 100%, match=2496)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .GGLLLLVPIICQLRSQGPEDTISPPNLIAWSDQPPSPYTPLLEDSLSGQPTSAMA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88 CCGTCTCCTTCAGGTCCTGAGGCCCCGAGAGCCCCTTCCGCGCACGCGGCACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         208 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   508 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCGCCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rececaracaceccascecererecererecesarerecascascecerecererer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                328 ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         388 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          448 ccricaargacaacaccererecriceregagaaccecaecrecarricagecre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACTIGICIGICIACTICITCGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 4; Length 2310;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels 129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 84.8%; Score 1513.8; 92.7%; Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                     musculus"
                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                 /organism="Mus musc
/mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note="putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 92.7
Matches 1654; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polyA_signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polyA_site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDS
                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected CDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Please visit our web site (http://genome.gsc.riken.jp/) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, M., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamanco, R., Matsumoto, R., Sakayuchi, S., Ikegami, T., Kashiwagi, K., Pujiwake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watshiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J., Mozazki, Y., Muzamatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y. RIKBN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp, UKL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer [5, GAGAGAGAGAACAACCAAGAGCTCTTTTTTTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases I to 2310)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Hiramoto, K., Hiramoto, K., Hiramoto, K., Hiramoto, K., Hiramoto, K., Ishi, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shibata, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Toya, T., Yamamura, T., Yasunishi, A., Yoshida, K., Yoshida, Y.,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the
                                                                                                                Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Buarchontoglires, Glires, Rodentía,
Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The RIKEN Genome Exploration Research Group Phase II Team and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA library was prepared and sequenced in Mouse Genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y.,
                                                                                                                                                                                                                                                                     Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
HTC; CAP trapper.
Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FANTOM Consortium.
                                                                                musculus
                                                                                                                                                                                                                                                                                                                                                                                              0349636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11076861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11042159
```

PUBMED REFERENCE AUTHORS

JOURNAL

TITLE

JOURNAL REFERENCE

TITLE

AUTHORS

TITLE

REFERENCE AUTHORS

JOURNAL

TITLE JOURNAL

COMMENT

	1261 AGTGGTAGTAAAAAGGGCTCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTG 1320 1533 ATGTCACCAGCTGCCAAGGCACGGTGCTGCAAGAAGCCAAGCT 1576 		BC022087 2751 bp mRNA linear HTC 01-APR-2004	Homo sapiens scavenger receptor class B, member 1, mRNA INAGE: 3010672), with apparent retained intron.	BC022087,1 GT:18314599 HTC.	Homo sapiens (human) Homo sapiens Eukaryota, Metazoa;	Mammalia; Butheria; Buarchontoglires; Primates; Catarrhini; Hominidae; Homo. 1 (bases I to 2721) Stranshorn B I Refundl R b Gronse I. H. Derre I G	Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,	<pre>Disconenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshlyuki, S.,</pre>	Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,	MCKETIAI, K.U., Malek, U.A., Gunarathe, P.H., Kichards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,	<pre>Famely 7 Milting M., Medan, M., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, B.D.,</pre>	<pre>Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E., Chronick, C. C. C. C. C. C. C. C. C. C. C. C. C.</pre>	Scullerin, Schlini, St. Johnes, Johnes, S.O. and Maria, M.A. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences	FIOC. Natl. Acad. SCI. U.S.A. 39 (26), 16839-16903 (2002) 12477932 2 (hassa 1 to 2751)		Submitted (22-JAN-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA	NIH-MGC Project URL: http://mgc.nci.nih.gov Conteat: MGC help desk Fmail: crawber@mail nih cov	Tissue Procurement: ATC CDNA Library Preparation: Rubin Laboratory	<pre>CDMA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology http://www.systemsbiology.org</pre>	contact: amadan@systemsbiology.org Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.B. Consortium/LIML at: http://image.llnl.gov	Serres: INAL Frace: 10 KOW: M COlumn: 20 This clone was selected for full length sequencing because it passed the following selection triteria: matched MRNA ci. 21361199	This clone has the following problem: retained intron. Location/Qualifiers 1. 2751	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606"
	8 & 8		RESULT 5 BC022087 LOCUS	DEFINITION	VERSION KEYWORDS	SOURCE	REFERENCE		٠					TITLE	PUBMED	AUTHORS	JOURNAL	REMARK COMMENT						FEATURES Source	
-								•													· ··· ·		- 1		
	181 GAGAACCGCAGCTCCATTTCCAGCTGACAAGTCGCATGGCTCAGAGAGTGACTACATT 240 453 GTACTGCCTAACATCTTGGTCCTGGGGGGGCTCGATATTGATGGAGGAAGCAGCTGTGAGC 512	241 GTACTGCCTAACATCTTGGTCCTGGGGGGGCTCGATATTGATGGAGAGCAAGCCTGTGAGC 300	513 CTGAAGCTGATGACCTTGGCGCTGGTCACCATGGGCCAGCGTGCTTTATGAACCGC 572	573 ACAGITGGIGAGATCCTGIGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTAC 632	361 ACAGTIGGIGAGATCCTGTGGGGCTATGACGATCCCTTCGTGCTTTTTCTCAACACGTAC 420	633 CTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTTTGTT	693 AATTCTGGGGTCTTCACTGTCTTCACGGCGTCCAGAATTTCAGCAGGATCCATCTGGTG 752 	GACAAATGGAACGGACTCAĞCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATC	5*1 GACAMAIGGAAGCGACTICAGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATC 600 813 AATGGGACTTCCGGGGAGATGTGGGCACCCTTCATGACACCCGGAATCCTCGCTGGAATTC 872	601 AATGGGGCTTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTC 660	873 TTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAA 932	33 GGCATTCCCACGTATCGCTTCACGCCCCCCGATACTCTGTTTGCCAACGGGTCCGTTTAC	721 GGCATTCCCACGTATCGCTTCACGGCCCCCGATACTCTGTTTGCCAACGGGTCCGTCTAC 780			41 AGGTTTGGGCCTCTGTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTG	1113 TCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATTCCTTGTTCCTAGACATC 1172 	CATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATC	. carccestcactegearccccateaactertctereaagatecaecteaecteracate	1233 AAATCTGTCAAGGGATCGGCAAACAAGAGGAAGATCGAGCCATAGTTCTGCGGTGCGT 1292 	1293 TGGTTCGAACAGAGCGGAGCAATGGGTGCCAACCCCCTGAGCACGTTCTACACGCAGGTG 1352 	GTGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGCTGCGGGCTTTGAAGGCCTC	1141 GTGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATGTGCTTGGGGGGCCTTGGAGGCCTC 1200	1413 CTGTTGCTGCTCCATCATCTGCCAACTGCGCAGCAGAAATGCTTTTTGTTTTGG 1472 	1473 AGTGGTAGTAAAAAGGGCTCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTG 1532
	රි සි	q	දි දි	È	g	දු පු	දු දු	ठे ह	3 8	QQ	8 8	8	q	8 8	3 8	· 원	රු සි	à	g .	දි දි	8 8	ò	qq	දු පු	ò

셤 ક 셤 8 ద õ 유 ઠ g 8

```
Submitted (20-701-2004) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr is trand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EooR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen.
                                                                                                                                            1119 TCAGAACGTCAGCACCTGCAGGTTCAGTGCCCCCTTGTTTCTCTCCCCATCCTCACTTCCT 1178
                                                                                                                                                                                                                                                                                                                                                                                    CR607701 2515 bp mRNA linear HTC 21-JUL-2004 full-length cDNA clone CS0DN004YM24 of Adult brain of Homo sapiens (human).
                                                                                                                                                                                                                                         CAACGCCGACCCGGTTCTGGCAGAAGCGGTGACTGGCCTGCACCCTAACCAGGAGGCACA 1238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CACGITCTACACGCAGCIGGIGCTGAIGCCCCAGGITCTICACTACGCGCAGIAIGIGCT 1393
  999 GGAGTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCGTGGCTCCCAAAACCCTGTT 1058
                                                                                                                                                                                                                                                                                                                                                                                                                                          1274 AGTAGTTCTGCCGTTGCTGTTCGAACAGAGCGAGCAATGGGTGGCAAGCCCCTGAG 1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1394 GCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCGCAGCCAGG 1452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Euteleostomi;
                                                                                                                                                                                                                                                                                                       CTCCTTGTTCCTGGACATCCACCCGGTCACGGGAATCCCCCATGAACTGCTCTGTGAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGTGGTCCTGCCTCTGGTTTGCAGAGAGCGGGGCCATGGAGGGGAGACTCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CACATICTACACTCAGCTGGTGTTGATGCCCCAAGGTGATGCACTATGCCCCAGTACGTCCT
                                                                                                                     TCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCCCCCACTTTTA
                                                                                                                                                                                                                                                                               1154 TICCTIGITCCTAGACATCCATCCGGTCACTGGGATCCCCCATGAACTGTTCTGTGAAGAT
                                                                                                                                                                                                                                                                                                                                                               GCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCC
                                                                              reccaacescricraccacccaaceaaceaacerrereccerecerecaerereaar
                                                                                                                                                                                                    CAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1479 CCTGGCGCTGGGTCCTGCTGCTGCTGTCATCTGCCAAATCCGGAGCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact : Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleo
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hominidae, Homo.
1 (bases 1 to 2515)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length CDNA libraries and normalization
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1. .2515
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODNO64YM24"
/tissue_type="Adult brain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CR607701.1 GI:50488508
HTC; CNSLT cDNA.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 (bases 1 to 2515)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Faraday Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genoscope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CR607701
                                                                              1059
                                                                                                                                                                                                                                         1179
                                                                                                                                                                                                                                                                                                                      1239
                                                                                                                                                                                                                                                                                                                                                               1214
                                                                                                                                                                                                                                                                                                                                                                                                    1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1419
                                         974
                                                                                                                     1034
                                                                                                                                                                                                    1094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
JOURNAL
REMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
CR607701
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMMENT
                                                                        유
                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                       ò
                                                                                                       ઠે
                                                                                                                                                g
                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        998
                                                                                                                                                                                                                                                                                                                                        218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               973
                                                                                                                                                                                                                                                              158
                                                                                                                                                                                                                                                                                                 133
                                                                                                                                                                                                                                                                                                                                                                                193
                                                                                                                                                                                                                                                                                                                                                                                                                       278
                                                                                                                                                                                                                                                                                                                                                                                                                                                              253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 913
                                                                                                                                                                                                                       73
                                                                                                                                                                                                                                         CTTCTTTGACGTCATGAACCCCAGCGAGATCCTGAAGGGCGAGAAGCCCCAGGTGCGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAGAATAAGCCCATGACCCTGAAGCTCATCATGACCTTGGCATTCACCACCCTCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGAGTCCTCGCTGGAGTTCTACAGCCCGGAGGCCTGCCGATCCATGAAGCTAATGTACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCCGATACTCTGTT
                                                                                                                                                                                                                       GTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCAGACATGGGCGGCAGCTCCAGGGCGCG
                                                                                                                                                                                                                                                                                                 CTGGGTGGCCTTGGGCGCCCTGGGGCTGCTGTTTGCTGCGCCTCGGCGTTGTCAT
                                                                                                                                                                                                                                                                                                                                      cresecrecceseceriesecercecesecraciereceriereceresecerieren
                                                                                                                                                                                                                                                                                                                                                                                GATCCTCATGGTGCCCTCCTCATCAAGCAGGTGCTCAAGAATGTCCGCATAGACCC
                                                                                                                                                                                                                                                                                                                                                                                                           GATCGTGATGGTGCCGTCGCTCATCAAGCAGCAGGTCCTTAAGAACGTGCGCATCGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cadradoctricitoracardiogaaddagarcccrarcccriciarcricicara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCGTGGACCCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGACACCGTGTCCTTCGTGGAGACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ceacaccororocarcacaraccocaccarcascaraccascaracaracaracaraca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCGGAGAGCGACTACATCGTCATGCCCAACATCCTGGTCTTGGGTGCGCGCGGTGATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGAGAGCCAGGCCTGTGAGCCTGATGATGACCTTGGCGCTGGTCACCATGGCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGATCCCTTCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   639 ACGIGCCTTCATGAACCGCACTGIGGGTGAGATCATGIGGGGGCTACAAGGACCCCCTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAATCTCATCAACAAGTACTTTCCAGGCATGTTCCCCTTCAAGGACAAGTTCGGATTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTTGGGATGAACAACTCGGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            recreaecreaecreceaereresecrerreaesererreaesesereaearea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cagcadgarccaccrcgrgacaagrgaacgggcrgagcaaggrrgacrrcrggcarrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTTCATGACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cartcachacarcardardaacrircradacaaricradaccacccrircardacrec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAA
                                                                                                                                                                               Gaps
                                                                                                                                                                               ö
                                                                                                                                      53.7%; Score 959; DB 4; Length 2751; 79.2%; Pred. No. 6.3e-243; Live 0; Mismatches 300; Indels
                  /tissue_type="Muscle, rhabdomyosarcoma"
/clone_lbe="NIH MGC 17"
/lab_hoste="DH10B-R"
/note="Vector: pOTR"
clone="IMAGE:3010672"
                                                                                                                                                           Best Local Similarity 79.2
Matches 1139; Conservative
                                                                                                                                                                                                                       14
                                                                                                                                                                                                                                                          66
                                                                                                                                                                                                                                                                                               74
                                                                                                                                                                                                                                                                                                                                        159
                                                                                                                                                                                                                                                                                                                                                                                134
                                                                                                                                                                                                                                                                                                                                                                                                                       219
                                                                                                                                                                                                                                                                                                                                                                                                                                                              194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      734
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             914
                                                                                                                                        Query Match
                                                                                                 ORIGIN
```

g

8

요

કે g ઠે g ð 셤 ઠે g

ઠે 셤 ઠે 요 ò g ð g 8.

Part	1121 TGCCAACGGGTCCATCTACCCACCCAACGAAGGCTTCTGCCCGTGCCTGGAGTCTGGAAT 1180	TCAGAATGTCAGCACCTGCAGGTTTGGGGCCCTCTGTTTCTCTCCCCCCCC	CAACGCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCACA	TTCCTTGTTCCTAGACATCCATCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGAT	GCAGCTGAGCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCC 	1274 AGTAGTICTGCCGTIGCTGTGGTICGAACAGAGCGGAGCG	1334 CACGTTCTACACGCAGCTGGTGCTGATGCTCCAGTTCTTCACTACGCGCAGTATGTGCT 1393	1394 GCTGGGGCTTGGAGGCCTCCTGTTGCTGGCCCATCTCTCCCAACTGCGCAGCCAGG 1452 	AY412680	Homo sapiens SCARBI genomic survey seque AY412680 AY412680.1 GI:39768	GSS. Homo sapiens (human) Homo sapiens Eukaryota; Metazoa; Chordata; Craniata: Vertebre		Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M. Inferring nonneutral evolution from human-chimp-mouse orthologous	gene trios Science 302 (5652), 1960-1963 (2003) 14671302 2 (bases 1 to 1364)	<pre>Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Carcill, M.</pre>	_	them based on alignment. Location/Qualifiers 1. 1364 //ordanism="Homo sapiens"	E / / 0	/locus_tag="HCM4638"
Pilasmida-PodvSPORT_6"	q	& g	රු සි	& a	රු සි	දු දු	& g	දු ය	RESULT 7 AY412680 LOCUS	ACCESSIO VERSION	KEYWORDS SOURCE ORGANI	REFERENC AUTHOR	TITLE	JOURNA PUBME REFERENC	AUTHOR	TITLE JOURNA COMMENT	FEATURES	gen	ORIGIN
Pilasmida-PokvSPORT_6"					<del></del>												•	,	
		Score 957.4; DB 4; Length 2515; Pred. No. 1.6e-242; 0; Mismatches 301; Indels 0; Gaps	00000   00000 00000	CTGGGTGGCCTTGGGGTGCCCTGGGGCTGCTGTTTGCTGC	GATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCC	GAGCAGCCTGTCGGGATGTGGAGAGATCCCCGTCCCTTTCTACTTGTCTGTC	CTICTTCGAAGTGGTCAACCCAAAGGGGGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAAGTCCTTTAAACGCAGAAAGCCGCAAGAAGCCGCAAGAAGCCGGCAAGAAG	GCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAA	CGACACCGTGTCCTTCGTGGAGAACCGCGCCCCATTTCCAGCCTGACAAGTCGCATGG	CTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGTCGATATTGAT	GGAGAGCAGCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCCATGGCCCA 	GCGTGCTTTTATGAACGGCACAGTTGGTGAGATCCTGTGGGGCTATGACGATCCCTTCGT 	GCATITICICAACACGTACCICCCAGACAIGCTICCCATAAAGGGCAAATTIGGCCIGIT	TGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCAGGGGGGGCGTCCAGAATTT 	CAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTC	AGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGTGTGGGCACCCTTCATGACACC  GATCAGTGCAACATGATCAATGGAACTTCTGGGCAATGTGGGCACCCTTCATGACTGAGAATGTAATGGAAATGTCTGGGCAATGGAATGTCTGAGCAATGGAATGGAATGGAAATGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGGAAATGAATGAATGAATAAT	GGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAA.	CGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGATACTCTGTT	TGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGACAGTCTGGCAT

	RESULT 8 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 BU517714 VERKORDS SOURCE MUS musculus (house mouse) ORGANISM BUSTATORATORATORATORATORATORATORATORATORATO	CDNA Library Arrayed by: The I.M.A.G.R. Consortium (LLNL)  DNA Sequencing by: Agencourt Bioscience Corporation  Clone distribution: MGC clone distribution information can be found through the I.M.A.G.R. Consortium/LLNL at:  http://inage.llnl.gov  Plate: LLAMI4092 row: b column: 03  High quality sequence stop: 700.  FEATURES  Location/Qualifiers  / organism="Mus musculus" / porganism="Mus musculus" / porganism="Mus musculus" / porganism="Mus musculus" / porganism="Mus musculus" / stafin="FUSN/N-3" / db xref="taxon:10090" / clone="IMAGE:6515330" / dev stage="s months"	/lab_host="DH10B" //clone=lib="NCI_CGAP_Mam2" //clone=lib="NCI_CGAP_Mam2" //note="Organ: mammary; Vector: pCMV-SPORT6; Site 1: Sall; //note="Organ: Not1; Cloned unidirectionally. Primer: Oligo dT. Library constructed by Life Technologies. Investigator providing samples: Gilbert Smith, NIH"  Query Match 47.8%; Score 852.4; DB 5; Length 902; Best Local Similarity 99.7%; Pred. No. 9.5e-215; Matches 864; Conservative 0; Mismatches 2; Indels 1; Gaps 1;
Query Match         52.8%; Score 941.6; DB 10; Length 1364;           Best Local Similarity 80.6%; Pred. No. 2.2e-238;         0; Gaps 0;           213 ATGTGGAAGGAATCCCGTCCTTTCTACTTGTCTACTTCTTCGAAGTGGTCAAC         272           1 ATGTGGAAGGAATCCCTATCCCTTTTTTCTCTCTCTCTTCTTTTTACTTGTAAC         272           273 CCAAACGAGGTCCTAACGCCAGAAGCCAGTAGTCCGGAGCCTGAGCTATGTCTAC         332           61 CCCAGCAGAAGCCAGAAGCCAGAAGCCGAGAGCGCGGAGCCCTATGTCTAC         120           333 AGGAGTTCAGACAACACACACACACACACACACACACACA		TTCAGCCCGAGGGCAAATGTGGCCGCCTTCATGACTCCTGGTTCTTGAAATGTGGCCGCCGCTGGAGTTCTTGAGCCCGCGGGGGGTTCTTGAGCCGCCGGGGGGGTTCTTGAGCCGCGGGGGGTTCTGGGGGGGG	AGSTICAGIGCCCCTTGTTTCTCCCCATCCTCACGCCGACCCGGGTTCTG TCAGAAGCCGTTCTTGGTCTGAACCCTAACGCCGACCCGGGTTCTG TCAGAAGCGGTCTTTGGTCTGAACCCTAACCCGAAGGCGCATTCCTTGTTCCTTGTTCCTGGACATC TCAGAAGCGGTCCTGGTCTGTACCTGGTGCAGCACCTCTTGTTCTTTCT

Sciurognathi; Muroidea; Muridae; Murinae; Mus. CE 1 (bases 1 to 879) RS NHH-MGC http://mgc.nci.nih.gov/.	scrion (Me	eng IL)	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://inage.llnl.gov plate: LLAM11860 row: g column: 20	High quality sequence stop: 819.  FEATURES Location/Qualifiers 1879 /organism="Mus musculus"	/mol_type="mkNa" /stain="129,C510L,6J,FVB/N" /db_xref="teaxon:1090" /clone="IMAGE:5338795"	/ tissue type="timor, gross tissue" /dev_stage="10 months" /lab.host="nH10" /clone_lib="NCI_CGAP_Mam3"	/note="Organ: mammary; Vector: pCMV-SPORT6; Site 1: Sall; Site 2: Not1; Cloned unidirectionally. Primer: Oligo dT. Library constructed by Life Technologies. Investigators providing samples: Lothar Hennighausen/Chu-Xia Deng, NIH		Query Match 46.0%; Score 821.4; DB 3; Length 879; Best Local Similarity 98.8%; Pred. No. 1.6e-206; Matches 870; Conservative 0; Mismatches 6; Indels 5; Gaps 4;	OY 772 GCAAGATCGATTTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGA 831	Qy 832 TGTGGGCACCTTCATGACACCCGAATCCTGGCAGAATTCTTCAGCCCGGAGGCATGCA 891  Db 61 TGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCA 120	Qy 892 GGTCCATGAAGGTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATTGGT 951	OY 952 TCACGGCCCCGAIACTCTGTTTGCCAACGGTCCGTCTACCCACCCAACGAAGGCTTCT 1011  Db 181 TCACGGCCCCCGAIACTTTGCCAACGGGTCCGTCTACCCACCCACGAAGGCTTCT 240	Qy         1012 GCCCATGCCGAGAGTCTGCGAATGCAGCACCTGCAGGTTTGGTGCGCCTCTGT         1071           Db         241 GCCCATGCCGAGAGTCTGCAGATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGT         300	Qy         1072 FICTCECCACCCCCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTC         1131           Db         301 FICTCECCACCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTC         360	QY         1132 TGAACCCTAACCGAAGGATTCCTTGTTCCTAGACATCCATC	Qy         1192         CCATGAACTGTTCTGTAAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCG         1251           Db         421         CCATGAACTGTTCTGTGAAGATGCAGCCTCTACATCAAATCTGTCAAGGGCATCG         480	Qy 1252 GGCAAACAGGGAAGATCGCCAGTAGTTCTGCCGTTGCTGTGGTTCGACAGGGGGG 1311
Qy       420 GACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGG       479         Db       1 GACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGG       60	QY 480 GGCTCGATATTGATGAGGAGAGCCTGTGAGCCTGAAGCTGATGACCTTGGGGCTG 539	Qy 540 GTCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTAT 599 	Qy 600 GACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGC 659	Qy 660 AAATTTGGCCTGTTTGTGGGATGAACACACGAATTCTGGGGTCTTCACTGTCTTCACG 719 Db 241 AAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCAC 300	QY       720 GGCGTCCAGAATTTCAGCAGAATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATC       779         Db       301 GGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATC       360	OY 780 GATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGACTTCCGGGCAGATGTGGGCA 839	QY         840 CCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATG         899           Db         421 CCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATG         480	QY 900 AAGCIGACCTACAACGAATCAAGGGTTTTGAAGGCATTCCCACGTATCGCTTCACGGCC 959	Qy         960         CCCGATACTCTGTTTGCCAACGGGTCCGTCTACCCCACCAACGAAGGCTTCTGCCCATGC         1019           Db         541         CCCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCA	CGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCC		OY 1140 AACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAAC 1199	Oy 1200 TGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATC-GGGCAAAC 1258	Qy         1259         AGGGAAGATCGAGCCAGTAGTTCTGCC         1285           Dh         R41         AGGGAAGATCGAGCCAGTAGTTCTTCTCC         867	6 YINS	LOCUS B1651436 879 bp mRNA linear EST 12-SEB-2001 DEFINITION 603298176F1 NCI_CGAP_Mam3 Mus musculus cDNA clone IMAGE:5338795 5', MRNA sequence.	VERSION BI651436.1 GI:15565672 KEYWORDS EST. SOURCE Mus musculus (house mouse)	OKUANISM MUB MUSCLIUS Eukaryota, Eukaryota, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia,

```
genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ĀY412681
AY412681.1 GI:39768646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GSS.
                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661
                                                                                                                                                      97
                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AY412681
LOCUS
                                                      a
                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윤
                                                                                                         8 8
                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGENCOURT 8763294 NIH_MGC_129 Mus musculus cDNA clone IMAGE:6313455 5', mRNA sequence. BQ317716. BR017716.1 GI:22332414 EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mol type="mmNa" minoting //mol type="mmna" mino
                                                                                                                                                                                                                    1491
                                           1371
                                                                                                                                  1431
                                                                                                                                                                                                                                                                                                           CCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGG 1551
                                                                                                                                                                                                                                                                                                                                                                                               GCACGGTGCTGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTAT-AAGCCCCCCAAAC 1610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7
                                                                                                                                                                           660
                                                                                                                                                                                                                                                               718
                                                                                                                                                                                                                                                                                                                                                                                                                                           838
                                                                                    900
                                                                                                                                                                                                                                                                                                                                  CCCAGGATAAGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGG 778
GGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAG 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Murinae; Mus.

1 (Dases 1 to 979)
NIH-MGC http://mgc.nci.nih.gov/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert Strausberg, Ph.D.

Email: cgapbe-r@mail.nih.gov
Tissue Procurement: Susan L. Sullivan, PhD.

CDNA Library Preparation: ResGen, Invitrogen Corp
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM13740 row: j column: 16
High quality sequence stop: 622.
                                                                                                                                                                                                                    TCTGCCAACTGCGCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                      GCACGGTGCTGCAAGAAGCCCAAGCTATAGGGTCCTGAAGACACTATAAAGCCCCCCAAAC
                                           CAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTC
                                                                  CAATGGGTGGCTAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTC
                                                                                                                               TTCACTACGCGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCA
                                                                                                                                                         661 rereceaereceaecaecaecaeaaarecriri--errrecaerecraeraaaaeeecr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          þ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 802.2; DB 5; Length 979;
Pred. No. 2.1e-201;
0; Mismatches 24; Indels 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGA-TAGCTTGGTC-AGACCAGCCACCCAGTCCCTACACC 1649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGATTAGCTTGGTCAAGACCAGCAACCCAGTCCTAAAGCC 879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 96.8%;
Matches 840; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unpublished (1999)
                                                                                      541
                                                                                                                               1372
                                                                                                                                                                                                                    1432
                                                                                                                                                                                                                                                                                                                                                                                               1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1611
                                           1312
                                                                                                                                                                                                                                                                                                        1492
                                                                                                                                                                                                                                                                                                                                                  719
                                                                                                                                                                                                                                                                                                                                                                                                                                           779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 10
BQ917716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                             셤
                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                      ò
                                                                             g
                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
```

```
AY412681 1364 bp DNA linear GSS 16-DEC-2003 Pan troglodytes SCARB1 gene, VIRTUAL TRANSCRIPT, partial sequence,
                                                                 120
                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 816
                                                                                                               156
                                                                                                                                                           121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                         216
                                                                                                                                                                                                                                                                                                 276
                                                                                                                                                                                                                                                                                                                                                                                             336
                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                817 ATTATTGGCATTCAGAGCAGGGTACATGATCCATGGGGACTTTCGGGGAAAATGTGGGG 876
                 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pan troglodytes (chimpanzee)
Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
37 CCGTCTTCAGGTCCTGAGCCCCCAGAGCCCCTTCCGCGCACGCGGACATGGGCGCAC
                                                                                            ACTIGICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGCCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                       277 ACTIGICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          577 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGTTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGG--ACTTCCGGGCAGATGTGGGC
                                                               217 TCCGGATAGACCCGAGCAGCCTGTCCCGATGTGAAAGAAGAATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             637 ACGAICCCTICGIGCAITTICICAACACGTACCTCCCAGACAIGCTICCCCAIAAANGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AATTTGGCCTGTTTGTTGGGATGAACACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                       TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      397 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACAAGTCGCATGGCTCAGAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTCGATATTGATGGAGGAGCCAGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A--CCCTTCATGACACCCGAATCCTCGC 864
```

REPRENCES  L. These 1.0 1344,  ATTHERS  L. These 2.0 1344,  TITLE  COMMAN CONTRIBUTION OF THE PROPERTY OF THE	Db   S41 GACAANNGGAACGGGCTGAGCAAGGTTGACCATCCGATCCG	Db   781 NININININININININININININININININININI	Qy         1233 AAATCTGTCAAGGCATCGGGCAAACAGGGAAGATCGAGCCAGTGCTTGCCGTTGCTG         1292           Db         1021 AAATCTGTCGAGGCATGGGCAAGATTGAGCCTGTGGTCTTGCCGCTGCTC         1080           Qy         1293 TGGTTCGAACAGGCGAACAGGCGCAAGATTGAGCCTGTGGTCTTGCCGCTGCTC         1080           Db         1081 TGGTTCGAACAGGCGGAGCATTGTACTCCACATTCTACACCCAGCTG         1352           HILL	RESULT 12 B1218548 LOCUS DEFINITION 602938062F1 NCI_CGAP_L19 Mus musculus CDNA clone IMAGE:5101214 5', MCNA sequence. ACCESSION B1218548 VERSION B1218548.1 G1:14671992 KEYWORDS ST. Mus musculus (house mouse) NGGANISM Mus musculus BURATYOCA; Mctaraa; Chordata; Craniata; Vertebrata; Euteleostomi; BURATYOCA; Mus musculus BURATYOCA; Mus musculus BURATYOCA; Mus musculus BURATYOCA; Mus musculus BURATYOCA; Mus
Mammalia; Eutheria; Buarchontoglires; Primates; Catarthini, 1 (Dases 1 to 1364) 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Anama, M. D. and Cargill, M. 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Anama, M. D. and Cargill, M. 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Anama, M. D. and Cargill, M. 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Anama, M. D. and Cargill, M. 1 (Clark, A. Tamebaum, D.M., Civello, D.R., Lu.P., Murphy, B., 1 (Anama, M. D. and Cargill, M. 1 (Anama, M. M.) (Anama, M. 1 (Anama, M. M.) (Anama, M. M. 1 (Anama, M. M.) (Anama, M. M.) (Anama, M.) (Anama, M.) (Anama, M.) (Anama, M.) (Anama, M.)				
80 N 10 N	Mammalia; Butheria; Buarchontoglires; Primates; Catarrhini; Hominidae; Pan.  1 (bases 1 to 1364) Clark, AG. Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M. Inferring nonneutral evolution from human-chimp-mouse orthologou gene trios Science 302 (5652), 1960-1963 (2003) 14671302 2 (bases 1 to 1364) 2 (bases 1 to 1364) Clark, A.G., Clanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, F.J., Sninsky, J.J.,	Addms, m.D. and Cargill, M.  Direct Submission Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Dr Rockville, MD 20850, USA This sequence was made by sequencing genomic exons and o them based on alignment. Location/Qualifiers 1. 1364 //organism="Pan troglodytes" //db_xref="lexon:9598"  //db_tref="lexon:9598"  //gene="SCARBI" /locus_tag="HCM4638"	44.9%;   Score 802.2;   DB 10;   Length 1364;   Conservative	CTGAAGCTGATGATGACCTTGGGGCTGGTCATGGGCCAGCGTGCTTTTATGAACCGC CTGAAGCTCATGACCTTGGGGCTATCACCCACCCTCGGGGGAACTTTATGAACCGC ACAGTGGTGGTGAACCTTGGGGCTATGACCGTCCTTTTTTTCAACAGGTAC  ACAGTTGGTGGAATCTGTGGGGCTATGACGATCCCTTGTGGAACTTTTCTCAACAGGTAC  ACTGCGGACATGGTTCCCTTAAAGGGCAAATTTGGCCTGTTTGTT

```
/db_xref="texon:10090"
/clone="IMAGE:492347"
/lab_host="BHIOB (TI phage-resistant)"
/clone lib="NGI CAPE SG2"
/note="Organ: salivary gland; Vector: pCMV-SPORT6; Site 1:
/note="Organ: salivary gland; Vector: pCMV-SPORT6; Site 1:
/note: Sali; Cloned unidirectionally. Primer: Olīgo dT. Average innert size 1:3 kb. Constructed by Life Technologies. Note: this is a NCI_CGAP Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              602792027F1 NCI_CGAP_SG2 Mus musculus cDNA clone IMAGE:4923247 5', mRNA sequence.
                                                                                                                                                                                                                                                        1478 TA--GIAAAAAGGGCICCCAGGAIAAGGAGGCCATTCAGGCCIACTCTGAGTCCCTGATG 1535
                                                                                                                                                                                                                                                                                                                                                                                       1536 TCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACT 1595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E I (bases 1 to 818)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: Gapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey B. Orchange Procurement: Offrey B. Consortium (LLNL)
DNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at:
http://inmage.llnl.gov
Plate: LLAM10844 row: e column: 08
High quality sequence stop: 829.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      674 IGTIGGGAIGAACAACICGAATICIGGGGICTICACIGICTICACGGGCGICCAGAATIT 733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST.

Mus musculus
Mus musculus

Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,

Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia,

Sciucognathi, Murcidea, Muridae, Musinae, Mus.
                                    661 AJGCCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGCTGCTGGGGGCTTGGAGGCCTCCTGTT
                                                                                                                                                                  840 TCCCAGTTGCCAAGGGCCCGGTGGTGCCAGAAGCCAGGTATAGGG-CCTGAAGACACT
                                                                                                                              614 GCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GCATITICTCAACACGTACCTCCCCAGACATGCTTCCCATAAAGGGCAAATT--GGCCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 42.8%; Score 763.2; DB 2; Length 838; Best Local Similarity 97.2%; Pred. No. 4.6e-191; Matches 819; Conservative 0; Mismatches 19; Indels 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .838
/organism="Mus musculus"
/mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BG870988.1 GI:14221528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1596 ATAAGCCC 1603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    899 TTÁGCCCC 906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
BG870988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                     셤
                                                                                                                          ð
                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAACAGAGCGGAGCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTG 1358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTT 1058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCAGAA 1118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1179 GTCACTGGGATCCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCT 1238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1239 GTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTC 1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 GGTGCGCCTCTGTTTCTCTCCCACCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 759 TGGAACGGACTCAGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGG 818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 TGGAACGGACTCAGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            819 ACTTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGC 878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /Burani="rvo"
/db.xene="rvo"
/clome="IMAGE:5101214"
/lab_host="DH10B (T1 phage-resistant)"
/clome lib="NCI CGAP_Lig>
/note="Organ: liver; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: Sali; cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.9 kb. Constructed by Life
Technologies. Note: this is a NCI_CGAP Library."
                       Tissue Procurement: Jeffrey B. Green, M.D.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov
Plate: LLAM11243 row: 1 column: 15

High quality sequence stop: 798.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCGGAGGCATGCAGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181 ccecacionarica de la contra dela contra de la contra de la contra de la contra de la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 AACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .,
2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1059 GGTGCGCCTCTGTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 907;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       42; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     144.3%; Score 790.8; DB 2; larity 94.8%; Pred. No. 2.2e-198; Conservative 0; Mismatches 42;
                                                                                                                                                                                                                                                                                                                                                                                       organism="Mus musculus"
Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                     1. .907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 861;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       879
                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

COMMENT Contact: Robert Strausberg, Ph.D. Email: ggapbs-r@mail.nih.gov Tissue Procurement: Gilbert Smith, Ph.D. CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D. CDNA Library Arrayaed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: NGT-GGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM11290 row: b column: 16 High quality sequence start: 2		Ouery Match  Best Local Similarity 91.2%; Pred. No. 1e-189; Matches 883; Conservative 0; Mismatches 74; Indels 11; Gaps  702 GTCTTCACTGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAAT	B20 CTTCCGGGCAGATGTGGCCTTCATGAACCCGAATCCTCGCTGGAATTCTTCAGCCCGGGGGGCAGGGGGGGG	1060 GTGGGCTCTGTTTCTCCCCCCCCTTTTACAAAGGCGACCTGTGTTGTGGAAG 1119
	238 GAATCCTCGCTGGAATTCTTCAGCCCGGAGGCCCCCATGAAGCTGCACAA  914 CGAATCAGGGTGTTTGAAGGCATTCCCACGTATCGCTCCATGAAGCTGACCTGCT  298 CGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCAGGCCCCCGGATACTCTGTT  298 CGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCAGGCCCCCGGATACTCTGTT  974 TGCCAACGGGTCCTTACCCACCCACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCAT  1034 TGCAACGGGTCCTTACCCACCCACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCAT  1034 TACAAATGTCAGCACCTGCAGCTTTGGTTTTCTCTCCCCACCCCCACTTTA  104 CAACGCCACCTGTTTGTAGAAGCTGTTCTTGTTCTCTCCCCACCCCCAAAGGACTTTTA  105 CAACGCCGACCTGTGTTGTCAGAAGCTGTTCTTGTTCTTCTCCCAAAGGAGCA  115 TTCCTTGTTCCTAGACATCCATCAGGAATCCCTAAAGGAGCA  115 TTCCTTGTTCCTAGAACTCCATCCGGATCCCATGAAGTTTTTTTT	1214 GCAGCTGAGCCTCTACATCAAATCTGTCAAGGCAAACAGGGAAACAGGCAAACCCGCC		VERSION BIGGARISON BIGGARISON BIGGARISON BIGGARISON BIGGARISON BIGGARISON BIGGARISON BIGGARISON BURGARISON BUR

124

g

8 셤 8

g 8 g ò

8 셤 8 g

ઠે 셤 ઠે g

```
/clone lib="NCI_CGAP_Mam6"
/note="Organ: mammary; Vector: pCWV-SPORT6; Site 1: SalI;
/note="Organ: mammary; Vector: pCWV-SPORT6; Site 1: SalI;
site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Jeffrey Green, M.D., NIH"
                                                                                                                                                                                                                                                                                                                          785 CGGGCGTCCCAAAATTTCAGCAGGAACCATCTGGTGGCCCAAATGGACGGGCCTCCGCAA 844
                                                                                                                                                                                                                                                                                                                                                                                                                                   185 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGAGCAGCAGGGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               605 TCACCATGGGCCAGCGTGCTTTTATGAACCGCCACAGTTGGTGAGATCCTGTGGGGCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    665 gacgarcccrrccrgcgarrrrcrcaacacgraccrcccagacargcrrcccaraaagggc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGGTCTCCTTCAGGTCCTGAGGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                            TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                245 rececaradaceceadecererecererecearereadadacecerecererer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTCGATATTGATGGAGGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           717 ACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGAC--TCAGCA
                                                                                                                                                                                                                                              CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                    TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACTIGICIGICIACTICITCGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCACCATGGGCCAGCGTGCTTTTATGAACCG-CACAGTTGGTGAGATCCTGTGGGGGCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTT---C
                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                        9
                                                                                                                                                                Length 883
                                                                                                                                                                                                      26; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            775 AGAICGAITAITGGCAITCAGAGCAGIGTAACAIGAIC 812
                                                                                                                                                              41.1%; Score 734.4; DB 3;
96.1%; Pred. No. 2.1e-183;
iive 0; Mismatches 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   845 AAATCGAATATTGGCTTCCAGAGCAGTGTTACTGGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search completed: February 24, 2006, 02:49:16 Job time : 7283.38 secs
                                                                                                                                                                                   Best Local Similarity 70.1.
Matches 786; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              425
                                                                                                                                                                                                                                                                                      65
                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                  Query Match
                                                                                                                        DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                용
                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                      1416
                                                                                                                                                                                                                                                                                      1475
                                                                                                                                                                                                                                                                                                                                                                    1532
                                                                                                                        1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BI854754 883 bp mRNA linear EST 10-OCT-2001
                                          1297
                                                                                                                                                                                                                                                                                                                            780
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1533 ATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAAGCTATAGGGTCCTGAAGAC 1592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1593 ACTATAAGCCCCCCCAAACCTGATAGCTTGGTCAGACCAGCCACCCAGTCCCTACACACCCCG 1652
                                                                             900
                                                                                                                                                                                                                                              720
                                                                                                                                                                99
                                                                                                                                                                                                                                                                                                                                                                                         781 AGTA--AAAAAGGGGTTCCCCAGGATAAGGAGGCCATTCAGGCCTACTTCTGAGTCCCCTGA 838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Context: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyre Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.lln.gov
Plate: LLAMI1987 row: b column: 04
High quality sequence stop: 775.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia,
Sciurognathi, Muroidea, Muridae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGTAGTAAAAAGGGCTCCCAGGATAAGGAGGCCATTCAGGCCTA---CTCTGAGTCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             839 TGTCCACCAGCTGCCAAGGCACGGTGCTTGCAAAAAGCCAAGGTAATAGGGTCTTGAAGA
GTCACTGGGATCCCCATGAACTGGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATC
                                                                                                                        CGAACAGAGCGGAGCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCT
                                                                                                                                                 GATG-CCCCAGGTTCTTCACTACGCGCAGTATGTGCTGCGGGGCCTTGCAGGCCTCCTGT
                                                                                                                                                                                                                                              661 GATGCCCCCAGGTTCTTCACTACGCGCAGTATGTGCTGCTGGGGGGCTTGGAGGCCTCCTGT
                                                                                                                                                                                                                                                                                    TGCTGGTGCCCATCATCTGCC-AACTGCGCAGCCAGGAGAAATGCTTTTTGGAGT
                                                                                                                                                                                                                                                                                                                          721 recreereccarcarcreccaaacreceaeccaeeaeaaarecrinerreeaereer
                                        TGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTT
                                                                 TGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 883)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db xref="taxon:10090"
/clone="IMAGE:5387427"
/sex="female, virgin"
/tissue type="infiltrating ductal carcinoma"
/dev_stage="5 months"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mRNA sequence. ____BI854754
BI854754.1 GI:15995501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1653 CTTCTTGA 1660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTGAGGA 966
                                          1238
                                                                                                                                                                                                                                                                                                                                                                    1476
                                                                                  541
                                                                                                                        1298
                                                                                                                                                                                                      1358
                                                                                                                                                                                                                                                                                    1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 15
BI854754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
```

424 420 484 480 544 540 604 664 629 724 716 784

FEATURES

```
February 23, 2006, 18:01:48 ; Search time 308.241 Seconds (without alignments).
10293.724 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 58, A
Sequence 3, Ap
Sequence 2296,
Sequence 11, A
                                                                                                                                                                                                                                                                                                                                                                                                                  1785
1 CCGTCTCCTTCAGGTCCTGA......TCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3, Sequence 7, Sequence 3, Sequence 3, Sequence 3, Sequence 3, Sequence 1, Sequen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence Sequence Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
Sequence
Sequence
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2606114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /cgn2_6/ptcdata/1/ina/1_COMB.seq:*
/cgn2_6/ptcdata/1/ina/5_COMB.seq:*
/cgn2_6/ptcdata/1/ina/6A_COMB.seq:*
/cgn2_6/ptcdata/1/ina/6B_COMB.seq:*
/cgn2_6/ptcdata/1/ina/H_COMB.seq:*
/cgn2_6/ptcdata/1/ina/P_COMB.seq:*
/cgn2_6/ptcdata/1/ina/PP_COMB.seq:*
/cgn2_6/ptcdata/1/ina/PP_COMB.seq:*
/cgn2_6/ptcdata/1/ina/PP_COMB.seq:*
/cgn2_6/ptcdata/1/ina/PP_COMB.seq:*
/cgn2_6/ptcdata/1/ina/RB_COMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-241-581B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1303057 seqs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patents NA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query .
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                             US-08-765-108-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Issued
                                                                                                                                                                                                                                                                                                                                                                         Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1142.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                                             Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Result
No.
```

Sequence 12, Appl	Sequence 2027, Ap	Sequence 13, Appl	Sequence 14038, A		Sequence 11, Appl	Sequence 11, Appl	Sequence 11, Appl	Sequence 2451, Ap	ω,	80	Sequence 8, Appli	Sequence 8, Appli	16,	16,	Sequence 16, Appl	Sequence 16, Appl	Sequence 7, Appli	7,	Sequence 7, Appli	Sequence 7, Appli
US-10-024-396-12	US-09-949-016-2027	US-10-024-396-13	US-09-949-016-14038	US-08-890-980-11	US-08-890-979-11	US-09-032-894-11	US-09-031-626-11	US-09-513-999C-2451	US-08-890-980-8	US-08-890-979-8	US-09-032-894-8	US-09-031-626-8	US-08-890-980-16	US-08-890-979-16	US-09-032-894-16	US-09-031-626-16	US-08-890-980-7	US-08-890-979-7	US-09-032-894-7	US-09-031-626-7
m	m	m	ო	N	m	m	ᠬ	m	~	m	ო	m	Ŕ	ო	m	ო	N	m	m	m
485	4465	41322	90472	481	481	481	481	397	526	526	526	526	450	450	450	450	495	495	495	495
10.4	9.1	7.8	7.8	7.7	7.7	7.7	7.7	7.2	6.2	6.2	6.2	6.2	6.0	6.0	9	6.0	0.9	6.0	6.0	6.0
185.8	162.2	139.6	139.6	138	138	138	138	127.8	111	111	111	111	106.8	106.8	106.8	106.8	106.6	106.6	106.6	106.6
'n	9	7	80	6	0	н	a	۳	4	'n	و	7	œ	σ	0	_	~	m	4	D.

## ALIGNMENTS

```
REQUENCE 3. Application US/0855905

Sequence 3. Application US/0855905

Barent No. 5925313

GENERAL INFORMATION:

RAPLICANT: Noney Krieger, Suean L. Acton, Attilio Rigotti, Helen H. APPLICANT: Noney Krieger, Suean L. Acton, Attilio Rigotti, Helen H. APPLICANT: Noney REALTY Lands and Atthy Landshulz

FUTIS OF INVESTION: METHODS FOR MODULATION OF LIPID UPTAKE

CORRESPONDER ADALSS:

ADDIESSE: 1200 One Atlantic Center

STREET: 1200 One Atlantic Center

MANE: REALTY ONE PROMING

ATTORNEY AND ATLANTIC NUMBER: 13, 1284

STREET: 1200 One Atlantic Center

STREET: 1200 One Atlantic Center

STRANDENDRSS: 1000 One Atlantic Center

STREET: 1200 One Atlantic Center

OTHER INFORMATION: Promotion = "Nucleic de Equence for the murine Scavenger Recept

OTHER INFORMATION: Center One Atlantic Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Ce
```

δ g ઠ 셤 δ 셤 Š 셤 ò 용 8 유 ઠે 셤 ð 요 8 g ò g ઠે g ઠે В

```
1380
                                                                                                                                                                                                                                                                                                                                                                                                         1380
                                                                                                                                                                                                                                                                                                                                                                                                                                              1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT 1200
                                                                                                        1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                         1321 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGGTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1381 CGCAGTATGTGCTGCTGCTGGGGGCTTGGGGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1621 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTAGCGGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021 GAGAGTCTGGCAFTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                       GTTCTGTGAAGATGCAGCCTGACCTCAAATCTGTCAAGGGCATCGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1441 TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGCCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                  GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                    ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                              ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCCATGAACT
                                                                                                                                                                                                                               GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                   GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                        GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCGCAGCCAGGAGAAATGCTTTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 3, Application US/08749907

Patent No. 5962322

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRES:
ADDRESSE: Patrea L. Pabst, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
STREET: 2800 One Atlantic Center
STREET: 2800 One Atlantic Center
STREET: 3009-3450

COUNTRY: USA

ZIP: 3009-3450

COUNTRY: USA

STREED FORM:
MEDIUM TYPE: Bloppy disk

COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 2
US-08-749-907-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1681
                  1021
                                                                                      1081
                                                                                                                                                                                              1141
                                                                                                                                                                                                                                 1201
                                                                                                                                                                                                                                                                1201
                                                                                                                                                                                                                                                                                                   1261
                                                                                                                                                                                                                                                                                                                                      1261
                                                                                                                                                                                                                                                                                                                                                                        1321
                                                                                                                                                                                                                                                                                                                                                                                                                                              1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                             ద
                                                                                    ð
                                                                                                               ద
                                                                                                                                                ठे
                                                                                                                                                                                       g
                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1020
                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             960
                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGGAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      999
                                                                                                                                                                            9
                                                                                                                                                                                                                                                                    121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                           241 ACTIGICTGTCTACTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTTCAATGACAACGACACGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACAAGTCGCATGGCTCAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTCGATATTGATGGAGGGAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTCGATATTGATGGAGGCAAGCCTGTGAGCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                           ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Accarcerrectarinitresacacacaracerectacacaracaracaracaraaacaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                            CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCA
                                                                                                                                                                                                             cerecadedeceredardecerradedrivedececeeeergeeeergerarrigereee
                                                                                                        1 CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                       TCCGCATAGACCCGAGCCGGCCTGTCCTTCGGGATGTGGGAAGGAGATCCCCGTCCCTTTCT
                                                                       Gaps
                                                                       ö
                                    Length 1785;
                                                                     Indels
                                    DB 2;
                                                                     ö
                                                                   0; Mismatches
                                  100.0%; Score 1785;
llarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                 Best Local Similarity
Matches 1785; Conserv
JS-08-559-505-3
                                                                                                                                                                            61
                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                    Query Match
```

셤

8 8

ያ ዓ

ò 6 ይ

```
1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                              CGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCC 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1321 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTTCGAACAGAGCGGAGCAATGGGTG 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1441 TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 780
                                                                                                                                                                                                                                                                                                           GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                              721 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACAGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1081 ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                  ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCAC
                                                                                                                                                                                                                                                                                     CCTTCATGACACCCGGATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                            CCGATACTCTGTTTGCCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GITCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCGCAGCCAGGAGAAATGCTTTTTTTTTTTTGAGTGGTAAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCAAGAAGCCCAAAGTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACTGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                              196
                                                                                                                                                                                                                                                                                                                                                                                                                                                               196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1621
     601
                                      601
                                                                          199
                                                                                                                                            721
                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                     841
                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                 781
                                                                       ò
                                                                                                  셤
                                                                                                                                          ò
                                                                                                                                                                           셤
                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                    ď
                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 51..1577
OTHER INFORMATION: /Function = "Nucleotides 51 through 1577
OTHER INFORMATION: encode the amino acid sequence for the murine Scavenger Recep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCCAAACGAGGTCCTCAACGGCCAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAAGGTCAACATCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGAGAGATCCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTIGICICITATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCACCATGGGCCAGCGTGCTTTTATGAACCGCAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    coercrecarcagerecreagececeaageceerreegegeacargagegegea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>ecrceararreareaaecaaeccrereaeccreaaecreareareareaccrreeceree</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCGTCTCCTTCAGGTCCTGAGCCCCCGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
YSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB.2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 1785;
100.0%; Pred. No. 0;
tive 0; Mismatches
                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
                                                                            CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabet, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1785 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
FRATT-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 100.
Best Local Similarity 100.
Matches 1785; Conservative
                                                                     FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-749-907-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGTGCTCAAGAATG 180  181 TCCGCATAGACCCGAGCAGCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT 240	ACTIGNOSCAGAGCGTGAAGTGGTCAAGGGAGTTCAGAGGGTCCTCAACGGCCAGAAGCCCAGAAGCCCAGAAGCCCAGAAGCCCAGAAGCCCAGAAGCCCAGAAGCCCAGAAGCCCAGAAGCCTAGTCTACAGGGAGTTCAGACACAAAAGGTCAACATCAACAGAGAGTCCAACATCAAGAGAGTTCAGACAAAAGGTCAACATCAACACAACAAAAGAGAACGTGAACATCAACAACAACAACAACAACAACAACAACAACAACA	421 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG 480 421 ACAAGTCGCATGGCTCAGAGGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG 480 421 ACAAGTCGCATGGCTCAGAGGTGACTTGTACTGCTCTGGGCGTGGGGG 480 481 GCTCGATATTGATGGAGAGCAGCTGAGCCTGAGCTGATGATGTTTGGCGCTGG 540 481 GCTCGATATTGATGGAGAGCAGCTGAGCTGAGCTGATGATGAGCGTGG 540 541 TCACCATGGGCCAGCTTTTATGAACGCCACAAGTTGGTGAGATCTTGGGGGTATG 600 541 TCACCATGGGGCCAGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGTATG 610 HILLIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHI	1   1   1   1   1   1   1   1   1   1	GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAATGGAACGGACTCAGCAAGATCG	CCTTCATGACACCGAATCCTGGAATTCTTCAGCCCGGAGGCATGGAGGTCCATGA AGCTGACCTACAACGATCTTGAAGGCATTCCCACGTATCGAGGTCCATGA AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC	1021 GAGATCTGGCATTCAGAATGTCAGCACCTGCAGGTTGGTGGCTCTGTTTCTCTCCC 108G 1021 GAGACTTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCCTCTGTTTCTCTCCC 108G 1021 GAGACTTGGCATTCCAAATGTCAGCACCTGCAGGTTTGGTGCCTTTTTCTCTCCC 108G 1081 ACCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 114G 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCAGCTGTTCTTGGTCTGAACCCTA 114G 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCAGGATCCCCATGAACT 120G 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCAGGATCCCCATGAACT 120G 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCAGGATCCCCATGAACT 120G 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCAGGACCATCAGGATCCCCATGAACT 120G 1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCAGGACCATCAGGATCCCCATGAACT 120G 1141 ACCCAAAGGAGCATTCCTTGTTCAAATCTCATCAAGGGCAAACAG 126G 1141 ACCCAAAGGAGCATGAATCTAAATCTGTCAAGGGCAAACAG 126G 1141 ACCCAAAGGAATGCAGCTTGAACTCAAATCTGTCAAGGGCAAACAG 126G 1141 ACCCAAAGAATCTGTCAAATCTGTCAAAGAGCAAACAG 126G
8 8 8 8	6 6 6 6 6	8 8 8 8	8 6 8 6	8 8 8 8	6 6 6 6 6	8 4 8 4 8 4 8
	RESULT 3 US-09-241-581B-7 ; Sequence 7, Application US/09241581B ; Patent No. 6350859 ; GENERAL INFORMATION: ; TITLE OF INVENTION: Class BI and CI Scavenger Receptors ; NUMBER OF SEQUENCES: 8 ; CORRESPONDENCES: 8 ; ADDRESSE: Patrea L. Pabst	STREET: 2800 One Atlantic Center 1201 West Peachtree Street CITY: Atlanta STATE: Georgia COUNTRY: USA ZIP: 3309-3450 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC Compatible COMPUTER: IBM PC Compatible COMPUTER: IBM PC Compatible COMPUTER: IBM PC Compatible COMPUTER: IBM PC COMPATIBLE	SOFTWARE: Patentin Release #1.0, Version #1.25  CURRENT APPLICATION DATA:  APPLICATION NUMBER: US/09/241,581B  FILING DATE: 02-Feb-1999  CLASSIFICATION: <unknown> ATTORNEY/AGENT INFORMATION:  NAME: Paber, Patrea L.  REGISTRATION NUMBER: 31,284  REFERENCE/DOCKET NUMBER: M176620</unknown>	TELECOMMUNICATION INFORMATION:  FILERPHONE: (404) 873-8794  TELEPRONE: (404) 873-8795  INFORMATION FOR SEQ ID NO: 7:  SEQUENCE CHARACTERISTICS:  TYPE: nucleic acid  TYPE: nucleic acid  STRANDEDNESS: double  TOPOLOGY: linear  MOLECULE TYPE: DNA (qenomic)	HYPOTHETICAL: NO  ANTI-SENSE: NO  FEATURE:  NAME/KEY: CDS  LOCATION: 511577  COTHER INFORMATION: /Function = "Nucleotides 51 through  1577 encode the amino acid sequence for the murine Scavenger Receptor  Class Bl."  SEQUENCE DESCRIPTION: SEQ ID NO: 7: US-09-241-581B-7	Query Match         100.0%; Score 1785; DB 3; Length 1785;           Best Local Similarity         100.0%; Pred. No. 0;           Matches 1785; Conservative         0; Mismatches         0; Indels         0; Gaps           Oy         1 CCGTCTCCTTCAGGTCCTGAGCCCCTACGGCGCACGCGGACATGGGCGGCA         60           Db         1 CCGTCTCCTTCAGGTCCTGAGGCCCCTACGGGCGCACGGGGGCACATGGGCGGGGACATGGGCGGGC

ð g ò ð 유 ò 8

Š

à

```
OTHER INFORMATION: /Function = "Nucleotides 51 through 1577 encode the amino acid sequence for the murine Scavenger Receptor Class BI. SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTTCAATGACAACGACACGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        661 AATTIGGCCIGITIGIIGGGAIGAACAACICGAATICIGGGGICTICACACIGITICACGG 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 CCGTCTCCTTCAGGTCCTGAGCCCCCAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCTCATCAAGAGCAGCAGGAGTGAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 ACTIGICIGICIACTICITICGAAGIGGICAACCCAAACGAGGICCICAACGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601 ACGAICCCTICGIGCAITTICICAACACGIACCICCCCAGACAIGCIICCTAAAAGGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGAACAAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCGCATAGACCCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 ACTIGICIGICIACITICITICGAAGIGGICAACCCAAACGAGGICCICAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421 ACAAGICGCAIGGCICAGAGAGIGACIACAIIGIACIGCCIAACAICIIGGICCIGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATTTGGCCTGTTTGTTGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                          Length 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                       DB 3;
                                                                                                                                                                                                                                                                                                                                                                     Query Match
100.0%; Score 1785;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1785; Conservative 0; Mismatches
                  SEQUENCE CHARACTERISTICS:
LENGTH: 1785 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
RATI-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                      LOCATION: 51..1577
OTHER INFORMATION:
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                   NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                          US-09-385-799-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                        1380
                                                                                                                                               1380
                                                                                                                                                                                             1440
                                                                                                                                                                                                                                                                                                                                                                     1560.
                                                                                                                                                                                                               1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1680
                                                                                                                                                                                                                                                                                 1500
                                                                                                                                                                                                                                                                                                     TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT 1620
                                                        1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTCCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                               TGCGCAGCCAGGAGAATGCTTTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                   1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                    GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                        CGCAGTATGTGCTGCTGGGGCTTGCAGGCCTCCTGTTGCTGCTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1561 rechagaacccaaccraraccercraacacacraraaccccccaaaccrcaraccrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTCAGACCAGCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL NUMBER OF SEQUENCES: 4 CORRESPONDENCE ADDRESS: 4 ADDRESSER: Patrea L. Pabst, Arnall Golden & Gregory STREET: 2800 One Atlantic Center 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1741 ATGCCCACGCATGTGCAAAACAACTAGGGGCCAGGGACAGGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1741 ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: Georgia
COUNTRY: USA
ID: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: DATE: PLOPS/MS-DOS
SOFTWARE: PATEMIT Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 30-Aug-1999
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/749,907
FILING DATE: 15-NOV-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 3, Application US/09385799
Patent No. 6962688
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JS-09-385-799-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1621
                                                                                                    1321
                                                                                                                                               1321
                                                                                                                                                                                        1381
                                                                                                                                                                                                                                 1381
                                                                                                                                                                                                                                                                               1441
                                                                                                                                                                                                                                                                                                                                                                   1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
```

```
IOCATION: 51..1577
OTHER INFORMATION: /Function = "Nucleotides 51 through
OTHER INFORMATION: 1577 encode the amino acid sequence
OTHER INFORMATION: for the murine Scavenger Receptor
OTHER INFORMATION: Class BI."
TITLE OF INVENTION: Class BI and CI Scavenger Receptors NUMBER OF SEQUENCES: 8 CORRESPONDENCE ADDRESS: ADDRESS:
                                                                                                                                                         COMPUTER READABLE FORM:

MEDIUM TYPE: RIOP94360

COMPUTER READABLE FORM:

MEDIUM TYPE: RIOP97 disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/07721

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Patrea L.

RESTSATION NUMBER: MIT620

TELECOMMUNICATION INFORMATION:

TELEPHONE: (404) 873-8794

TELEFANCE: (404) 873-8795

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 1785 base pairs

TYPE: MICHOLIC acid

STRANDEDMESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 1785;
100.0%; Pred. No. 0;
rative 0; Mismatches
                                                                   ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
STATE: Atlanta
STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 100.
Matches 1785; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCT-US95-07721-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                           1080
                                                                                                                                                                                                                                                                                                                     1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1680
                                                                                                                                                                                                                            1020
                                                                                                                                                                                                                                                                                           1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                 GITCTGTGAAGATGCAGCTGAGCCTCTACATCTGAATCTGTCAAGGGCATCGGGCAAACAG 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGCAGTATGTGCTGCTGGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCGCAGCCAGGAGAATGCTTTTGTTTTGGAGTGGTAGTAAAAAGGCCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Acceaaaddacarrectrigriceracarecarecaerecaereagareceargaaer 1200
                                                                                                                                    960
                                                                                                                                                                 960
                                         840
                                                                      900
                                                                                                                                                                                                                                                           GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTTCTCTCCC
                                                                                                                                                                                                                                                                                   1021 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
           ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGGCAC
                         841 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGATGCAGGTCCATGA
                                                                                                                                    AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                     GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGCAGTATGTGCTGGGGCTTGGAGGCCTCCTGTTGCTGCTGCTCCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCTAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCTAGCGCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1561 IGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                      CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCAAGAAGCCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                     ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGCCCACGCATGTGCAAAAAACAACTCAGGGACCAGGGACAGGAC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1741 ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1681
                                        781
                                                                      841
                                                                                                                                901
                                                                                                                                                               901
                                                                                                                                                                                               961
                                                                                                                                                                                                                                                           1021
                                                                                                                                                                                                                                                                                                                                                                                     1141
                                                                                                                                                                                                                                                                                                                                                                                                                  1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1691
           781
                                                                                               용
                                                                                                                                ð
                                                                                                                                                             g
                                                                                                                                                                                              ò
                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     è
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ે
                                                                      ò
                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
```

120 120 180 180 240 240 241 ACTIGICIGICIACTICITICGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC 300 CAGTAGTICCGGGAGCGTGGACCCTATGTCTACAGGGGGGTTCAGAAAAGGTCCAACATCA 360 9 9 121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGAGTGCTCAAGAATG CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAAGGTCAACATCA 1 CCGTCTCCTTCAGGTCCTGAGGCCCCGGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCGA 121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG 181 TCGGATAGACCCGAGCAGCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT 241 ACTIGICTICTACTICTICGAAGIGGICAACCAACGAGGICCTCAACGGCCAGAAGC 61 ecrecadedececeredaredecerredederredececerededecrecretererece TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAAGGAGATCCCCGTCCCTTTCT CCGTCTTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA Gaps ö Length 0; Indels 9 8 301 301 ò

// Sequence 7, Application PC/TUS9507721
// GENERAL INFORMATION:

RESULT 5 PCT-US95-07721-7

Db 1441 TGGGGGCGTTGAGGCTTTTTGGTGTGGTGATAAAAGGGCTCCCAGGATA 1500  Qy 1501 AGGAGGCCATTCAGGCCTACTCTGAGGTGGTGGTGCTGCCAGGGCTCCCAGGGTG 1560  Db 1501 AGGAGGCCATTCAGGCCTACTCTGAGTCCTGATGTCACCAGGCCCAGGGGCAGGTGC 1560  Qy 1561 TGCAAGAAGCCAATCAGGCTCTGAGGCCCTATAAGCCCCCCAAGGGCAGGGTG 1560  Db 1561 TGCAAGAAGCCAACTATAGGGTCCTGAAGACCTATAAGCCCCCCAAACCTGATAGCTT 1620  Qy 1621 GGTCAAGACGAGCTATAGGGTCCTGAAGACCTATAAGCCCCCCAAACCTGATAGCTT 1620  Qy 1621 GGTCAAGACCAGCCACCCAGTCCCTACACCCGGTTCTTTGAGGACTTCTTCAGGGGACAGC 1680  Db 1621 GGTCAAGACCAGCCACCCAGTCCCTACACCCGGTTCTTTGAGGACTTCTTCAGGGGACAGC 1680  Qy 1621 GGTCAAGACCAGCCACCCAGTCCCTACACCCGGTTCTTTGAGGACTTCTCTCAGCGGACAGC 1680  Qy 1621 GGTCAGACCATGGCCATGAGCCCCAGATGCTTCTTTGAGGACTCTCTCAGCGGACAGC 1680  Qy 1621 GGTCAGACCATGGCCATGAGCCCCAGATGTCACCCTGTCTCTCTC	RESULT 6  BESQUENCE 3, Application US/08830980  PRICADE S98141  SEQUENCE 3, Application US/08830980  PRICADE NO. 598141  SEQUENCE 3, ADDRIGAMINON  ITITIE OF INVENTION: SR. BI NUCLEIC ACIDS AND USES THEREFOR NUMBER OF SEQUENCES: BESONGENCE SE. BELOT LLP  STRIE: One Post Office Square  CITY: Bescent ADDRESS:  COMPATER: Date POST Office Square  STRIE: MA  COUNTER READERS COMPATION: BRACK COMPATION: BRACK COMPATION: BRACK COMPATION: LLP  CONDITION TYRE: PLODY ALSA  CONTREME READERS COMPATION: MASS  SOTTANDER READERS TOWN  MEDITUM TYPE: 10-UUL-1997  CLASSIFICATION NUMBER: 10-UUL-1997  CLASSIFICATION NUMBER: 10-UUL-1997  ATTOMAT ADDRESS DOCKET NUMBER: MASS  RESTERENCE DOCKET NUMBER: MASS  MEDITATION NUMBER: 33, 43.0  FELEPANCE STARICION INFORMATION:  NAME: ATTOMA INFORMATION:  NAME: ATTOMA SEQ ID NO: 3: SEQUENCE CHRRACTERISTICS:  LEGGIN: 10-03-10-00  INPORMATION FOR SEQ ID NO: 3: SEQUENCE CALS.  SEQUENCE CHRRACTERISTICS:  LEGGIN: 10-03-10-00  INPORMATION FOR SEQ ID NO: 3: SEQUENCE CALS.  SECUENCE THE CONTROL TYPE: CDNA  FEATURE: TOPOLOGY: Linear  NAME/KEY: CDS   Query Match         78.2%; Score 1396.2; DB 2; Length 1825;           Best Local Similarity         88.7%; Pred. No. 0;           Matches 1523; Conservative         0; Mismatches 193; Indels         1; Gaps           Qy         5 CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACAGACAG	
	MGGGTG   MGGTCG   MGGTCG   MGGTCG   MGGTCG   MGGTCG   MGGTCG   MGGCCC   MGGCCC   MGGGCCC   MGGGCCC   MGGGCCC   MGGGCCC   MGGGCCC   MGGGTCG   MGGTCG   MGGT	

ω

1489 1444

8

ઠે

요 ઠે g

ઠે

g 8 g 8 g ઠે 셤 8 유 ò a ò a ઠ a ò 셤 Š g

ઠે

```
1730 AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGACAGTCCGC 1789
                                                               1250 AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCATGAACTGTTC
                                                                                                                                                                                             1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                      GATCGAGCCAGTAGTTCTGCCGTTGCTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1490 GTATGTGCTGCGGCCTGGGCGGCCTCCTGCTGCTGCTGCTCGTCATCTACCAGTTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGGCGCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTGAGCGGACAGCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1670 AGAAGCCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTATGTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG
                                                                                                                                                               TOTGAAGATGCAGCTGAGCCTCTACATCTATCTGTCAAGGGCCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                           GCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGCCAGGAGAAATGCTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACCTGATAGCTTGGŢC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BODY MASS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 7
US-08-890-39-3
is Sequence 3, Application US/08890979
is Patent No. 6030778
is RENERAL INFORMATION:
APPLICANT: Acton, Susan L.
APPLICANT: Ordovas, Jose M.
TITLE OF INVENTION: DISCRDERS
NUMBER OF SEQUENCES: 75
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELIOT LLP
STREET: One Post Office Square
CITY: Boston
STREET: MA.
COUNTRY: USA
COUNTRY: USA
CONPUTER: EADDRESE Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PatentIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1685 CAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGT 1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1790 CAGTGCCATGGCCTGAG-CCCCAGATGTCACACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Arnold, Beth E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: MIA-005.02
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                  1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1625
                                 1145
                                                                                                                                                               1205
                                                                                                                                                                                                                                                                                         1265
                                                                                                                                                                                                                                                                                                                                                                                                                       1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                               g
                                                                                                                                                        8 8 8
                                                                                                                                                                                                                                                                                                                                 음장
                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             844
                                                                                                                              229
                                                                                                                                                                                             184
                                                                                                                                                                                                                                                            289
                                                                                                                                                                                                                                                                                                                           244
                                                                                                                                                                                                                                                                                                                                                                                      349
                                                                                                                                                                                                                                                                                                                                                                                                                                                  304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           424
CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGCACACGCGGACATGGGCGGCAGCGC 169
                                                                  124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  890 CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GATATTGATGGAGGGAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AACTTIGTCCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC
                                                                                                                                                                                                                                                                                                                       CATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGAGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                        CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        770 CGGCCTGTTTGTTGAGATGAACACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCACAATTTCAGCAGCATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                                                                                                                              230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCAACAAGAACAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             caesececereserasces resecres escenceres escretas 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           845
                                                                                                                              170
                                                                                                                                                                                             125
                                                                                                                                                                                                                                                                                                                                                                                   290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1025
   110
                                                               65
                                                                                                                                                                                                                                                                                                                       185
                                                                                                                                                                                                                                                                                                                                                                                                                                                  245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  725
```

8 8 ઇ 셤

8686

```
1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1669
                                                                                                                                                                                                                                                                  1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1624
                                                                                                                                                                                                                                                                                                                                                                                                                           1145 AAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC 1204
                                                                                                                                                                                                      1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GATCGAGCCAGTAGTTCTGCCGTTGCTGGAGCAGAGCGGAGCAATGGGTGGCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1550 CAGCCAGGAGAAATGCTTTTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCCAGGGCCCCCCCAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGGGGACAGTCCGC
                                                                950 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                     1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                AAGGGAGCATTCTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGGAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1370 GATCGAGCCCGTGGTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1610 deccarricadeceracreradrererentariereaceaecreceaagedecaecaecae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCCCAC
                                                                                                                                          1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCTAA
                                                                                                                                                                                 965 TACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                                                                                                                                                                                                                1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATAAGGA
                                                                                                     905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    '18-09-032-894-3
'Sequence 3, Application US/09032894
'Sequence 3, Application US/09032894
'Patent No. 6130041
'GENERAL INFORMATION:
'APPLICANT: Acton, Susan L.
'TITLE OF INVENTION: SR.BI NUCLEIC ACIDS AND USES THEREFOR
'FILE REFRENCE: MIA-005.03
'CURRENT APPLICATION NUMBER: US/09/032,894
'CURRENT FILING DATE: 1998-02-27
'EARLIER APPLICATION NUMBER: 08/890,980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1685 CAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGT 1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1790 CAGTGCCATGGCCTGAG-CCCCAGATGTCACACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1505.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1730
                          845
                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                   8
                                                                                                                                                                                 ò
                                                                                                                                                                                                                     음
                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                     169
                                                                                                                                                                                                                                                                                                                                                                                                                                              124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          485 GATATTGATGAGAGAGAGCCTGGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                        CCCTTCAGTCCCTGAGCCCGGGGCCGGGCCGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ckedececrecerecerececrececrecererecererecererererererere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              caradaccccasccasccrercrirecaarsrsaassaarcccreracccrreracrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GICTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Grecerciaetrefregageregreareceaeceaearecraaaegereaeaeceaer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCCCACGCTCTGAGAGTGACTACATTATACTGCCTAACATTTCTGGTCTTGGGGGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     590 AGTAATGATGGAGGAAGTCTGCAGGCCTGAAGCTGATGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ccadaacricagcaagarccaccregregacagarggaargggcrcagcaaggrcaacra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATAGACCCGAGCAGCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGTCCGGGAGCGTGGACCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         770 cedectrerricardareaacaacteaeacrereeecrerreacterreacte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                                                                                                                                                                                                                                                             CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                                                                                                                                                                                                                                                                   Length 1825;
                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                   DB 3;
                                                                                                                                                                                                                                                                               Score 1396.2; DB 3;
Pred. No. 0;
0; Mismatches 193;
TELEPHONE: 617-832-1000
TELEFAK: 617-832-7000
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1825 base pairs
LYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                               78.2%;
88.7%;
                                                                                                                                                                                                                                                                             Query Match 78.2
Best Local Similarity 88.7
Matches 1523; Conservative
                                                                                                                                                                                                  CDS
156..1682
                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: CDNA
                                                                                                                                                                                                , NAME/KEY:
, LOCATION:
US-08-890-979-3
                                                                                                                                                                                                                                                                                                                                                             Ŋ
                                                                                                                                                                                                                                                                                                                                                                                                     110
                                                                                                                                                                                                                                                                                                                                                                                                                                            65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        999
```

요

셤

ò

셤

ò

셤

ò

셤

셤

ò

ઠ

ò

셤 Š 셤 ઠે

ઠે

ઠે a ઠે g ઠે 셤 ò 유 ઠે 요 ઠે 셤 8 유 8 셤 ઠે g ઠે 셤 ઠે 셤 8 쉱

```
1205 TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA 1264
                                                                                                                                                                                                                                                                                                                                                1250 AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1490 GTATGTGCTGCTGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCG
                                                                                                                                                                                                                                                                                1190 TCACTICTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1550 CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1625 AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1010 cacciraccardarricaddddririrdaaddcarccccacciarcdcrircacadcccraa
                                                                                                                                                         1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                                            1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTTGGTGCACCCCTGTTTCTGTCACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                     1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCCATTGGGCAAACAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                                1145 AAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC
                                                                                                                         965 TACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                                                                                                                                            1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTGTCTCCCACCC
                                                                                                                                                                                                                                                              1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1445 CAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3, Application US/09031626
Patent No. 6228581
GENERAL INFORMATION:
APPLICANT: Acton, Susan L.
APPLICANT: Ordovas, Jose M.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILE REFERENCE: MIA-005.04
CURRENT APPLICATION NUMBER: US/09/031,626
CURRENT PILING DATE: 1998-02-27
GENERAL APPLICATION NUMBER: 08/890,979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1685 CAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGT 1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 9
US-09-031-626-3
                                                       905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1505
                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                     ઠે
                                                                                   원
                                                                                                                         ð
                                                                                                                                                   셤
                                                                                                                                                                                          ò
                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                              1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               949
                                                                                                                                                                                                                                                                                                              169
                                                                                                                                                                                                                                                                                                                                                124
                                                                                                                                                                                                                                                                                                                                                                                  229
                                                                                                                                                                                                                                                                                                                                                                                                                   184
                                                                                                                                                                                                                                                                                                                                                                                                                                                     289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT 904
                                                                                                                                                                                                                                                                              64
                                                                                                                                                                                                                                                                                                                                                                                                                AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCCCACGCTCTGAGAGTGACTACATTATACTGCCTAACATTTCTGGTCTTGGGGGGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GATATTGATGGAGGAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             crescarreasacargaratarcarsacarsacarsacarsacarsacarr
                                                                                                                                                                                                                                                                                                     CCCTTCAGTCCCTGAGCCCGGGGCCGGGCCGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                         CATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATAGACCCCAGCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GICGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGGCCTGTTTGTTGGGATGAACAACTCGGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                                                                                                                                                                              CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGCACATGGGCGCGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGTCCGGGAGCGTGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cedecirentricinasakakakakaranakaranakaranakaranakaranakaran
                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                            1;
                                                                                                                                                                                                            Length 1825;
                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                            DB 3;
                                                                                                                                                                                                          Score 1396.2; DB 3;
Pred. No. 0;
0; Mismatches 193;
   EARLIER FILING DATE: 1997-07-10
                                                                                                                                                                                                         Query Match
Best Local Similarity 88.7%;
Matches 1523; Conservative 0
                 NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 1825
                                                                                                                                     ; NAME/KEY: CDS
; LOCATION: (156)..(1682)
US-09-032-894-3
                                                                                     TYPE: DNA
ORGANISM: Human
FEATURE:
                                                                                                                                                                                                                                                                                                              110
                                                                                                                                                                                                                                                                            ß
                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             725
```

8 8

8 8 8

1669

1609 1564

1444

Š 셤 ઠે g ઠે g ò 셤

```
1310 TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCCATTGGGGAAACAGGGAA 1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCA
 1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                    1250 AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGCCAGGAGAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1550 CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC
                                                                                                                               965 TACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCCCGAGA
                                                                                                                                                                                                                                     1130 Arccescarreaaaargreascacrrecassrricarecaccerstricaracacee
                                                                                                                                                                                                                                                                                                                                                AAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                       TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCCCCTGAGCACGTTCTACACGCAGCTGCTGCTGATGCCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTATGTGCTGCTGGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCCGC
                                                         905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                      1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTTTCTCTCCCACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTATGTGCTGCTGCGGGCTGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Helen H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1790 CAGTGCCATGGCCTGAG-CCCCAGATGTCACACCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-559-505-1
                      950
                                                                                                                                                                                                                                                                           1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1490 (
                                                                                                                                                                                                                                                                                                                                                1145
                                                                                                                                                                                                                                                                                                                                                                                                                       1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 10
                                                                                                                             ò
                                                                                                                                                              셤
                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    윱
                                                         ò
                                                                                         셤
                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                        ij
                                                                                                                                                                                                                                                                                                                             169
                                                                                                                                                                                                                                                                                                                                                               124
                                                                                                                                                                                                                                                                                                                                                                                                    229
                                                                                                                                                                                                                                                                                                                                                                                                                                        184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCCGGAGGCATGCAGGTCCATGAAGCT 904
                                                                                                                                                                                                                                                                                            64
                                                                                                                                                                                                                                                                                                                CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGGATGGGCTCAGCAAGTA
                                                                                                                                                                                                                                                                                                                                                                 CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATAGACCCGAGCAGCCTGTCCTTCGGGATGTGCAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGAGATCCCTGTACCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGGGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  caardacaardaracrerererereseageacececeeecerecarrecaeceeeacae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           590 AGTAATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recerregaarrinareaaaaaraerraeeaacargrieeeeareaaggerr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGCCCTGTTTGTTGAATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGGCATTCAGAGCAGTGTAACATGAGTGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                                                                                                                                                                                          CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCGCAGCTC
                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                        1;
                                                                                                                                                                                                                      Length 1825
                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                     DB 3;
                                                                                                                                                                                                                   Score 1396.2; DB 3;
Pred. No. 0;
0; Mismatches 193;
EARLIER FILING DATE: 1997-07-10
NUMBER OF SEQ ID NOS: 121
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                 Query Match
Best Local Similarity 88.7%;
Matches 1523; Conservative 0
                                                                                                                                        ; NAME/KEY: CDS
; LOCATION: (156)..(1682)
US-09-031-626-3
                                                                                     TYPE: DNA
ORGANISM: Human
FEATURE:
                                                    SEQ ID NO 3
LENGTH: 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                        125
                                                                                                                                                                                                                                                                                            ഹ
                                                                                                                                                                                                                                                                                                                           110
                                                                                                                                                                                                                                                                                                                                                               65
                                                                                                                                                                                                                                                                                                                                                                                                    170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     425
```

셤

ò

셤

8

ò

셤

8

셤

ठे

셤

Š

ò

요

음

ò

유 ò 셤 ò

ð

1309

1084

1324 1429 1384 1489

1444

	650 605 710	665	725 CCAGAATTTCAGCAGGATCCATCTGGTGGACAGGACGGAC	785 TTGGCATTCAGAGCAGTGTAACATGATCGGGGCACTCCGGGCAGATGTGGGGCACCCTT 844	845 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT 904	905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA 964	965 TACTCTGTTTGCCAACGGTCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024	1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCCCC 1084	1085 CCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1144 [	1145	1205 TGTGAAGATGCAGCTGAGCCTCTACATCAGATCTGTCAAGGGCATCGGGCAAACAGGGAA   1310	1265 GATCGAGCCGGTAGTTCTGCCGTTGCTTCGAACAGAGCGGAGCAATGGCTGGC	1325 GCCCTGAGCAGGTTCTACACGGAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGGA 	1385 GTATGTGCTGCTGCGGCTTGGAGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCGGCTTGCAACTGCGCGGCGTGGCGGCTTGGGGCTTGCTGCTGCTGCTGC	1445 CAGCCAGGAGAAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGA 1504 	1505 GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564	1565 AGAAGCCAAGCTATAGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
d b	8 & 8	9 Q	& <sub>4</sub>	\$ A	& 8	<i>8</i> ∂	& 43	S G	ර් පි	å å	& g	ያ የ	oy Oy	රු සි	ð a	& 8	ð
CITY: Atlanta   STATE: Georgia   COUNTRY: USA     ZIP: 30309-3450     COMPUTER READABLE FORM:	MEDIUM TYPE: FLOPPY COMPUTER: IBM PC CON OPERATING SYSTEM: PC SOFTWARE: PACENTIN CURRENT APPLICATION DAY	AT	NAME: PADSE REGISTRATION REFERENCE/DO TELECOMMUNICAT	INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:	TYPE: nucleic STRANDEDNESS: TOPOLOGY: lir	HYPOTHETICAL: NO ANTI-SENSE: NO FEATURE:	NAME/ALI   MISS_1683   COCATION: 156.1683 	Query Match Query Match Acal Similarity 88.6%; Pred. No. 0; Matches 1485; Conservative 0; Mismatches 192; Indels 0; Gaps 0;	STOCTTCAGGTCCTGAGGCCCTTCCGCGCACGCGACATGGGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC	CAGGGGGCTGGGTGGCCTTGGGGTTGGGCCCCTGGGGCTGCT	125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG 230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTCGAAGAATGTCCG	Oy 185 CATAGACCCGAGCAGCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT 244	Oy 245 GTCTGTTTTTCGAAGTGGTCAACCCAAACGAGGTCCTCAAGGCCAGAAGCCAGT 304	Qy         305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCACCTT         364           Db         410 AGTGCGGAGCGTGGACCCTATGTCTACAGGAATTCAGACATAAGGCCAACATCACCTT         469	TGACAA       GGACAG	425 GTCGCATGGCTCAGAGAGTGACTTGTACTGCCTAACATCTTGGTCCTGGGGGCTC	DD 530 GICCLARGGCICIGARGIGACIACATIAIACIGCCIAACATICIGGGGGGCGC 589  QY 485 GATAITGAIGGAGCAAGCCIGIGAGCCIGAAGCIGAIGAIGAIGACCITGGCGCIGGICAC 544

484

```
965 TACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1250 AAGGGAGCATTCTTTGTTCCTTGACATCCGGTCACTGGGATCCCCATGAACTGTTC 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1310 rereaagrrecagaraagcereracareaagcrereaaggearreggeaargagaaaaag
  CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGATCCCTGTACCCTTCTACTT 349
                                                                                                                                                    AGICCOGGAGCGTGGACCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCACCTT 364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           650 CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGA 709
                                                                                             GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAAGCCAGT
                                                                                                                                                                                                                                                                                470 CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        890 CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGGCAGATGTGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            950 CATGACACCCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAAGGCCAACATCACCTT
                                                                                                                                                                                                                                        CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                    590 AGTAATGATGGAGGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recerregreaarirrarcaacaariaerraecagacargreecearcaaggggaagrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 770 CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1265 GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA
                                                                    GTCTGTCTACTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                               GATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               785 TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                    530 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1205
                        290
                                                                  245
                                                                                                          350
                                                                                                                                                  305
                                                                                                                                                                                            410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           725
                                                                                                                                                                                                                                        365
                                                                                                                                                                                                                                                                                                                          425
                                                                                                                                                                                                                                                                                                                                                                                                               485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     605
                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                  ઠ
                                                                                                        셤
                                                                                                                                                  ò
                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          吊
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /function= "Nucleotides 156 through 1683
encode the amino acid sequence for the Hamster Scavenger Rece
B-I."
1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          185 CATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64
                                                                TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                            1625 AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTGAGCGGACAGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 2; Length 1788;
                                                                                                                                                                                        Sequence 1, Application US/08749907
Battent No. 5962322
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVENTION:
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 1369.8; DB 2; Length
Pred. No. 0;
0; Mismatches 192; Indels
                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31, 284
REFERENCE/DOCKET NUMBER: MIT538
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEPHONE: (404) 873-8794
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA: US/08/749,907 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           76.7%;
88.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: 156. 1683
OTHER INFORMATION: /
OTHER INFORMATION: E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30309-3450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 1485; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Atlanta
STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                  Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HYPOTHETICAL: NAMIT-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE:
                                                                                                                                                RESULT 11
US-08-749-907-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-749-907-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              엄
```

1009

964

904

769

784

us-08-765-108-7.rni

ò 셤 ò 셤 ò 셤 ઠે 셤 ò 유 ò 셤

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCTAA 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    844
                                                                                                                                                                                                                                             169
                                                                                                                                                                                                                                                                                                                                                                                                                          289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          845 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT 904
                                                                                                                                                                                                                                                                                           124
                                                                                                                                                                                                                                                                                                                                  229
                                                                                                                                                                                                                                                                                                                                                                                 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                664
                                                                                                                                                                                                    64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          410 AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  470 CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG
                                                                                                                                                                                                                                                                                                                            170 CAGGGCGCCCCCTGGCGGTGGGCGGCTCGCCTCGTGCTGCTCGG
                                                                                                                                                                                                                                                                                                                                                                              125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGCTCCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                          230 TGTGGTTATGAFCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               290 CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       350 GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      365 CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                425 GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  650 cricecceacciecririandaacceaacacineereagarccierececrateaga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          710 TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 770 CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            890 CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                             110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGCCGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                              590 AGTAATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     785 TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGGCAGATGTGGGGCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      950 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                                                                                                 5 CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGACGACATGGGCGGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              245 GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTŢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         485 GATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     665 TGGCCTGTTTGTTGGGATGAACACTCGAATTCTGGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATAGACCCGAGCCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCCGTCCCTTTCTACTT
                                                                                                                                                          Gaps
                                                                                                                                                        ö
                                                                                                              Length 1788
                                                                                                                                                        Indels
                                                                                                              DB 3;
                                                                                                            Score 1369.8; DB 3;
Pred. No. 0;
0; Mismatches 192;
the Hamster Scavenger Receptor Class
                                           SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                                                            76.7%;
88.6%;
                                                                                                            Query Match
Best Local Similarity 88.6
Matches 1485; Conservative
                                                                US-09-241-581B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           545 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           725
                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                   1444
                                                                                       1489
                                                                                                                                                            1550 CAGCCAGGAGAATGCTTTTTTTTTTTGGAGTGGTAGTAAAAAGGCTCGCAGGATAAGGA 1609
                                                                                                                                                                                                                                                                                                                                                       1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669
                                                                                                                                                                                                                                                                                                                                                                                                                            1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC 1729
1370 GATCGAGCCCGTGGTCCTCCCATTGCTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGA 1429
                                              GCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCA 1384
                                                                                                                                                                                                                        CAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAGAAAAAGGGCTCCCAGGATAAGGA 1504
                                                                                                                                                                                                                                                                                                                GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                                                                                                                                                                                                                                     1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1625 AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1730 AGACCAGCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                   GTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG
                                                                                     1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /function= "Nucleotides 156 through
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-241-581B-3
Sequence 3, Application US/09241581B
Sequence 3, Application US/09241581B
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESSE:
CORRESPONDENCE ADDRESSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIE: 30109-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION DATE: 02-Feb-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1683 encode the amino acid sequence for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 2800 One Atlantic Center 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: MIT6620 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Pabst, Patrea L. REGISTRATION NUMBER: 31,284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc_feature
LOCATION: 156._1683
OTHER INFORMATION: /fur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
PANTI-SENSE: NO
PEATURE:
                                           1325
                                                                                                                                 1385
                                                                                                                                                                                                                        1445
                                                                                                                                                                                                                                                                                                                1505
```

g ò

ò

```
365 CAATGACAACGACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          230 TGTGGTTATGATCGTCGTGATGCCCTCGCTCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGAAGATCCCTGTACCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              350 GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      410 AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            65 chadacadacaradacarradagrinadacacacaradagrinarraciacacarada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                245 GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      425 GTCGCATGGCTCAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     485 GATATTGATGGAGAGCCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 710 TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    770 ceaccretrierreagareaacaecreaecrereescretreacretreaces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  125 CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                590 AGTAATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   665 TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGCGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 1369.8; DB 3; Length
Pred. No. 0;
0; Mismatches 192; Indels
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCS/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPRAX: (404) 815-659
TELEPRAX: (404) 815-655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 76.7%;
Best Local Similarity 88.6%;
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ŋ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                             1084
                                                                                                                                                               1189
                                                                                                                                                                                                                   1144
                                                                                                                                                                                                                                                          1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249
                                                                                                                                                                                                                                                                                                                                                                             1309
                                                                                                                                                                                                                                                                                                                                                                                                                                 1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GATCGAGCCCGTGCTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGGCGA 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA 1324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1325 GCCCCTGAGCACGTTCTACACGCAGCTGCTGATGCCCCAGGTTCTTCACTACGCGCA 1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1385 GTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGCCCCATCATCTGCCAACTGCG 1444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1490 drardrichichicadechedecedechechechechechechenenarichechernede 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1445 CAGCCAGGAGAAATGCTTTTTTTTTTGGAGTGGTAAAAAGGGCTCCCAGGATAAGGA 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1625 AGACCAGCCACCAGTCCCTACACCCCGCTTCTTGAGGACTCTCAGCGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1250 AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1550 CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAAAAGG
                                                      1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCAACCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                           GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCCTCTGTTTCTCTCCCACCC
                                                                                                                                                                                                              1085 CCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                         1145 AAAGGAGCATTCCTTGTTCCTAGACATCCAGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTGAAGATGCAGCTGAGCCTCTACATCTGAAGTCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INCOMPTER NO. 642698
; Sequence 3, Application US/08265428
; Sequence 3, Application US/08265428
; Patent No. 6425289
; GENERAL INCOMMATION:
; APPLICANT: Krieger, Monty
; TITLE OF INVENTION: Class BI Scavenger Receptors
; VUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 1100 Peachtree Street, Suite 2800
CITY: Atlanta
STATE: Georgia
CONNTRY: USA
ZIP: 30309-4530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
; COMPUTER: IEM PC Compatible
COMPUTER: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION UMBER: US/08/265,428
; ILING DATE:
; CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1430
                                                                                                                                                                                                                                                                                                                                                                                                                              1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1505
```

409

484

709 664 829

ö

L. Pabst, Arnall Golden & Gregory Atlantic Center

```
OTHER INFORMATION: /function= "Nucleotides 156 through 1683 encode the amino acid sequence for the Hamster Scavenger Receptor Class
                                                                                        CITY: Atlanta
STATE: Georgia
COWNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: DEATH: PC-DOS/MS-DOS
SOFTARRE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                     STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/749,907
FILING DATE: 15-NOV-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/09/385,799
FILING DATE: 30-Aug-1999
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc feature
LOCATION: 156.1683
OTHER INFORMATION: /fur
                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea
                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA
SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ANTI-SENSE: NO FEATURE:
 NUMBER OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            us-09-385-799-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1444
                                                                                                                                                                                                           1009
                                                                                                                                                                                                                                                                                1010 cacctaccardarrcaggggrgrrrgaaggcarccccaccrarcgcrrcacagccccraa 1069
                                                                                                                                                                                                                                                                                                                                                              1070 AACTITIGITIGCCAATGGGTCTGTTTACCCACCAATGAAGGTTTCTGCCCGTGCCTTGA 1129
                                                                                                                                                                                                                                                                                                                                                                                                 1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCACCC 1084
                                                                                                                                                                                                                                                                                                                                                                                                                         1085 CCACTITIACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCACTTCTACAATGCAGACCCTGTGTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAGGGACCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA 1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCCTGAGCACCTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACGCGCA 1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGCCAGGAGAAATGCTTTTTTTTTTGAGTGGTAGAAAAAGGGCTCGCAGGATAAGGA 1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGCCACGGTGCTGCA 1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                                                            TACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1145 AAAGGAGCAFTCCTTGTTCCTAGACATCCATCGGTCACTGGGATCCCCATGAACTGTTC 1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGGAA 1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA 1324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTCATGCCCCCAGGTACTTCAGTATGTGCA 1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCCAGGATAAGGA 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                         889
                                                                                            844
                                                                                                                                949
                                                                                                                                                                        904
                                                                                                                                                                                                                                                 964
                     784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTGAGCGGACAGCC 1681
                                       CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                       950 cargacacccagrecrescresaarrerreasressaasceresasserrargaaser
                                                                                                                                                                                                                                               GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG
                   CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                            TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT
                                                                                                                    1190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1625
                   725
                                                                                            785
                                                                                                                                                                      845
                                                                                                                                                                                                                                                 905
                                                                                                                                                                                                                                                                                                                          965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1550
                                                     요
                                                                                          8
                                                                                                                          용
                                                                                                                                                                    δ
                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                   ò
```

```
289
                                                                                                                                                                                                                                                                                                                                                                                                                                               349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                469
                                                                                                                                                                                       169
                                                                                                                                                                                                                                                                          229
                                                                                                                                                                                                                                                                                                                    184
                                                                                                                                                                                                                                                                                                                                                                                                     244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           364
                                                                                                                                                                                                                                 124
                                                                                                                                                64
                                                                                                                                                                      290 CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                410 AGTGCGGGGGGGGCGTGCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                   125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                           230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  350 GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAGCCAGT
                                                                                                                                                5 CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCCGCCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                     CATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                         Gaps
                                                               Length 1788;
                                                                                                      ;
0
                                                           Query Match
76.7%; Score 1369.8; DB 3; Length
Best Local Similarity 88.6%; Pred. No. 0;
Matches 1485; Conservative 0; Mismatches 192; Indels
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
```

Sequence 1, Application US/09385799
Patent No. 6962688
GENERAL INFORMATION:
GAPPLICANT: MONLY Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL

RESULT 14 US-09-385-799-1

8 8 8 8

ò

8

ઠ

```
1550 CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAATAAAAAAGGGCTCGCAGGATAAGGA 1609
                                                                                                                                1610 GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669
1445 CAGCCAGGAGAATGCTTTTTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGA 1504
                                                                                                  GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                            AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                          1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729
                                                                                                                                                                                                                                                                                         AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                       1730 AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGCCACACGCGGACATGGGCGCGCCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: /function= "Nucleotides 156 through OTHER INFORMATION: 1683 encode the amino acid sequence OTHER INFORMATION: the Hamster Scavenger Receptor Class OTHER INPORMATION: B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 3, Application PC/TUS9507721
GENERAL INFORMATION:
APPLICANT: Massachusetts Institute of Technology
ATTLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1369.8; DB 6; Length
Pred. No. 0;
0; Mismatches 192; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 3309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS.
SOFTWARE: PatentIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Pabet, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   76.7%;
88.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 1788 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc feature
LOCATION: 156..1683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 76.7
Best Local Similarity 88.6
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HYPOTHETICAL: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                      PCT-US95-07721-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCT-US95-07721-3
                                                                                                                                                                                            1565
                                                                                                                                                                                                                                                                                         1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ŋ
                                                                                                  1505
                                             셤
                                                                                               ò
                                                                                                                                          셤
                                                                                                                                                                                            ò
                                                                                                                                                                                                                                            合
                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAGGGACATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCATGAACTGTTC 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      950 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTTAA 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA 1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA 1324
                                                                                                                                                                 589
                                                                                                                                                                                                                                                                                                           CATGGGCCAGCGTGCTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA 604
                                                                                                                                                                                                                                                                                                                                                                                                             664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         904
                                                                                                                                                                                                                   544
                                                                                                                                                                                                                                            769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         964
                           424
                                                                                                                      484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          889
                                                                   CAATGACAATGATACTGTGTGCTTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA 784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1070 AACTITIGITIGICCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCA
                                                                                                                   GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                 485 GATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGACGCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                             TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCCTTCGTGAATTTTATCAACAATACTTACCAGACATGTTCCCCATCAAGGGGAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGCCTGTTTGTTGGGATGAACAACTCGGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        770 ceccretriferreagareaacaacreagacrereeecretreacrerereace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ccagaactrcagcaagarccaccrggrggacagarggaargggcrcagcaaggrcaacra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGGCACCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         890 CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcacrirciacaargeaaccererecanareaaagecerreregerereaaccereacce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1145 AAAGGAGCATTCCTTGTTCCTAGACATCCGTTCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATCGAGCCCGTGGTCCTCCCATTGCTGTTTTGAGCAGAGCGGTGCCATGGGCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTATGTGCTGCTGCGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTATGTGCTGCTGGGCTGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCG
                      CAATGACAACGACACGTGTCCTTCGTGGAGAACCGCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1370
                                                                 470
                                                                                                                 125
                                                                                                                                                                 530
                                                                                                                                                                                                                                                                                                             545
                                                                                                                                                                                                                                                                                                                                                             650
                                                                                                                                                                                                                                                                                                                                                                                                             605
                                                                                                                                                                                                                                                                                                                                                                                                                                                          710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1490
```

66666

ð

ठे

a &

8

8 8

∂

음 성 음

\$ B \$ B \$ B \$

8 8 8

8 6 8 6

8 6 8 6

8 6 8 6 8 6

65 CAGGGGGGGCTGGGTGGGCTTGGGCGTTGGGGCGCCCTGGGGGCTGCT	<del> </del>	
125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCG 184		
185 CATAGACCCGAGCAGCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT 244		
245 GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGGCGAGT 304		
305 AGTCCGGGAGCGTGGACCCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCACCTT 364 		
365 CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCGGGCGTCCATTTCCAGCTGACAA 424		
425 GTCGCATGCCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC 484		
485 GATATTGATGGAGGAGCCAGGGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC 544		
545 CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGA 604		
605 TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAACATGCTTCCCATAAAGGCCAAATT 664		
665 TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTTTCACGGGCGT 724		
725 CCAGAATTTCAGCAGCATCCATCTGGTGACAAATGGAACGCACTCAGCAAGATCGATTA 784 		
785 TTGCCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT 844		
845 CATGACACCGAATCCTGGAATTCTTCAGCCCGAGGCATGCAGGTCCATGAAGCT 904	6	
905 GACCTACAACGAATCAAGGGGTTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA 964	· · ·	
965 TACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCCGAGA 1024	4 O	
1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCCC 1084	4 0	
1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1144 1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249	4, 0,	

Search completed: February 23, 2006, 18:13:44 Job time : 309.241 secs

2, A<sub>b</sub> 22308, A 7, App Ap

Sequence

Sequence Sequence Sequence Sequence Sequence Sequence Sequence

Sequence Sequence Sequence

Sequence Sequence Sequence

Sequence Sequence Sequence

App Appl

12, Appl 22306, A 2060, Ap 120, App 107, App 2465, Ap

Sequence Sequence

ALIGNMENTS

```
Sequence 3, Application US/09148012
Patent No. US20020099040A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Krieger, Monty
TITLE OF INVENTION: BR-B1 Antagonist And Use Thereof As Contraceptives And
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REPERENCE: HITTLEOCIP2
CURRENT APPLICATION NUMBER: US/09/148,012
CURRENT FILING DATE: 1998-09-04
BARLIER APPLICATION NUMBER: 60/057,943
BARLIER FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PATENTI VET. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCGGCGTTGTCATGATCCTCATGGTGCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACAGGGGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
MAMB/KEY: misc_feature
LOCATION: (51) _ (1577)
OTHER INFORMATION: Encodes the amino acid sequence for the murine
OTHER INFORMATION: Scavenger Receptor Class BI
           US-10-794-198A-11

US-10-956-157-1424

US-10-210-172-115

US-10-434-555-2

US-10-434-555-2

US-10-428-551-11

US-10-428-551-11

US-10-75-920-248

US-10-75-920-248

US-10-75-920-248

US-10-75-920-248

US-10-75-920-248

US-10-75-920-248

US-10-210-172-117

US-10-956-157-6659

US-10-956-157-6659

US-10-956-157-6659

US-10-958-11387

US-10-152-3196-12

US-10-152-3196-12

US-10-152-3196-12

US-10-152-3196-12

US-10-152-3196-12

US-10-152-3196-12

US-10-152-3196-12

US-10-152-3196-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
100.0%; Score 1785;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1785; Conservative 0; Mismatches
84252
SEQ ID NO 3
LENGTH: 1785
TYPE: DNA
ORGANISM: MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JS-09-148-012-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-148-012-3
1141
1141
1141
1133
1127.8
1047.6
                                                                                                                                                                                  869
849
389.4
283.6
263.6
208.2
185.8
                                                                                                                                                                                                                                                                                                                                                                         162.2
161.2
                                                                                                                                                                                                                                                                                                                                                           163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1
                                                                                                                       2006, 18:08:32; Search time 1474.76 Seconds (without alignments) 10008.973 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3, Appli
Sequence 3, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1909,
                                                                                                                                                                                                                    1785
1 CCGTCTCCTTCAGGTCCTGA......TCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3, 2
Sequence 564
Sequence 285
Sequence 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1
Sequence 1
Sequence 3
Sequence 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Published Applications NA Main:*

1: /cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.seq:*

3: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*

3: /cgn2_6/ptodata/1/pubpna/USO9A_PUBCOMB.seq:*

4: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

5: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

6: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

7: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

8: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

10: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                           19587084
               5.1.7
Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-706-073-3
US-10-933-037-3
US-10-932-281-564
US-09-882-945A-285
US-10-807-114-285
US-10-152-319A-1909
US-09-779-152-3
US-09-779-152-3
US-09-748-012-1
US-09-148-012-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-164-863-1
US-10-706-073-1
US-10-933-037-1
US-10-276-774-1032
                                                                                                                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                   9793542 seqs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-648-593-90
               version - 2006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                        sw model
                                                                                                                                                                                                                                                                          IDENTITY NUC
Gapop 10.0 , Gapext 1.0
               GenCore (c) 1993
                                                                                      nucleic search, using
                                                                                                                                                                                                                                                                                                                                                                                                          DB seq length: 0
DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length DB
                                                                                                                                                                                                  US-08-765-108-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1785
2496
1607
1607
2497
                                                                                                                           February 23,
                                 Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1000.0
1000.0
1000.0
1000.0
1000.0
900.0
900.0
900.0
78.2
78.2
78.2
76.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing:
                                                                                                                                                                                                                     Perfect score:
                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1459.4
1396.2
1396.2
1396.2
1369.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1369.1
1369.1
1369.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1142.0
1142.0
1142.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1142.
                                                                                      OM nucleic
                                                                                                                                                                                                                                           Sequence:
                                                                                                                                                                                                                                                                                                                                   Searched:
                                                                                                                                                                                                                                                                                                                                                                                                            Minimum I
Maximum I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                                                           Run on:
                                                                                                                                                                                                Title:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
```

ö

Gaps

ö

ö

DB 3; Length 1785; Indels 120

9

241 ACTIVICIONICIONALICIONE CONTROLLO DE CON		Oy 1441 TGCGCAGCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAAAAAGGGCTCCCAGGATA 1500  Db 1441 TGCGCAGCAGGAGAAATGCTTTTTGTTTTGGAGTAGTAAAAAAGGGCTCCCAGGATA 1500	1501 AGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAGGGCACGGTGC	1561 TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT	1621 GGTCAGACCAGCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTGAGGGACAGGC 1621 GGTCAGACCAGCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTCAGCGGACAGC	1681 CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACACTGTCGGCGCGCGC	DD 1741 ATGCCCACGCATGTGCAAAAACACTCAGGGACCAGGACAGCACAGCACAGGACAGGACAGGACAGAGACAGGACAGGACAGGACAGAGACAGGACAGGACAGGACAGAGACAGGACAGGGACAGAGACAGGAAAACAAC	RESULT 2 US-10-178-611-3 ; Sequence 3, Application US/10178611	GENERAL INFORMATION: GENERAL INFORMATION: APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL MINISP OF SPOITBNIES.	CORRESPONDENCE ADDRESS:  ; CORRESPONDENCE ADDRESS:  ; ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory  ; STREET: 2800 One Atlantic Center	CITY: Atlanta ; STATE: Georgia ; CUNWINY: USA	COMPUTER READABLE FORM:  MEDIUM TYPE: Floppy disk  COMPUTER: IBM PC compatible	CURENT APPLICATION NUMBER: US/10/178,611  CURENT APPLICATION DATA:  APPLICATION NUMBER: US/10/178,611	; FILING DATE: 24-Jun-2002 ; CLASSIFICATION: «Unknown» ; PRIOR APPLICATION DATA: ; APPLICATION NUMBER: US/08/749,907	FILING DATE: «Unknown»  ATTORNEY AGENT INFORMATION:  NAME: Pabet, Patter L.  REGISTRATION NUMBER: 31,284	; TELECOMMUNICATION INFORMATION: ; TELECOMMUNICATION: ; TELEPHONE: (404) 873-8794 ; TELEFAX: (404) 873-8795	; INFORMATION FOR SEQ ID NO: 3: ; SEQUENCE CHARACTERISTICS: ; LENGTH: 1785 base pairs	STRANDEDNESS: double ; TOPOLOGY: linear
	4. ACTTGTCTGTCTACTTCGAAGTGGTCAACCCAAAGGAGGTCCTCAAGGGCCAGAAGG 4. ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAAGGAGGTCCTCAACGGCCAGAAGG 6. ACTTGTCTGCTACTTCTTCGAAGTGGTCAACCAAACGAGGTCCTCAAAGGTCAACAGGCAAAAGGTCAACATCA 6. CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 6. CAGTAGTCCGGGAGCGTGGACCCTATGTTTATGTCTAAAGGGAGTTCAGACAAAAAGTCAACACAAAAAGTCAAAAAAAA	CCTTCAATGACAACGACGTGTCTTCGTGAGAAACGCAGCTCCATTTCCAGCTCTTTTCAATGACAACAACAACGAAAACGAAAACGAAGCTTTTCCAGTTTTTCCAGTTTTTCCAGTTTTTCCAGTTTTTCCAGTTTTTCCAGTTTTTCCAGTTTTTTCCAGTTTTTCCAGTTTTTTCCAGTTTTTTCCAGTTTTTTCCAGTTTTTTTCCAGTTTTTTCCAGTTTTTTTT	ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCTAACATCTTGGTCCTGGGGGGGG	GCTCGATATTGATGGAGGAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG 	TCACCATGGGCCAGCGTGCTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG	ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 	AATTIGGCCIGITIGIIGGGAIGAACAACTCGAATICIGGGGICITCACGG	GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGAACAAATGGAACGGACTCAGCAAGATCG	ATTATTGGCATTCAGAGCAGTGTAACATGGATCAATGGGACTTCCGGGCAGATGTGGGCAC	CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA	AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCAGGGCCC	CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCGAACGAA	GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC	ACCCCCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCCTA	acccaaaggagcattccttgttcctagacatccatccggtcactgggatccccatgaact 	GTTCTGTGAAGATGCAGCTGGAGCTCTACATCAAATCTGTCAAGGGCATGGGGCAAACAGGTTCTGTGAAGAGCCATGGGGCAAACAGGTTCTGTGAAGAGGCATCGGGCAAACAG	61 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGGGTTCGAACAGAGCGGAGCAATGGGTG	21 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGTGATGCCCCAGGTTCTTCACTACG

```
APPLICANT: Krieger, Monty
APPLICANT: Krieger, Monty
APPLICANT: Miettinen, Helena
TITLE OF INVENTION: LIPLD-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY
FILE REFERENCE: MIT 9094
CURRENT APPLICATION NUMBER: US/10/164,863
                                                                                                                                         1080
                                                                                                                                                                                                1140
                                                                                      1020
                                                                                                                                                                      1080
                                                                                                                                                                                                                                                       1200
                                                                                                                                                                                                                                                                                1200
                                                                                                                                                                                                                                                                                                                                                                  1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGCAGTATGTGCTGGCTGGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGTCAGACCAGCCACCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGGGACAGG 1680
    CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900
                                            CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                 ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                   ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCCTCCGGTCACTGGGGTTCCCCTTGAACT
                                                                                                                                                                                                                                                                                                                                       GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                                 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                      GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCGCAGCCAGGAGAAATGCTTTTTTTTTTTGAGTGGTAGTAAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                            GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCTGCCTCTGTTTCTCTCCC
                                                                                                                                                            GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                     ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                             GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                                                                                  GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                       GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Argeceaegeargecaaaaacaacreagggaceagggacagace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 3, Application US/10164863; Publication No. US20030232879A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-164-863-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1741
                                                                                                                                                                                                1081
                                                                                                                                                                                                                           1081
                                                                                                                                                                                                                                                       1141
                                                                                                                                                                                                                                                                                1141
                                                                                                                                                                                                                                                                                                                                       1201
                                                                                                                                                                                                                                                                                                                                                                                           1261
                                                                                                                                                                                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                 1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1681
     841
                                                          901
                                                                                    961
                                                                                                                                            1021
                                                                                                                                                                      1021
                                                                                                                                                                                                                                                                                                            1201
                                                                                                                                                                                                                                                                                                                                                                  1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1561
                               901
                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                        8 6 6 6
                                                                                                                                                                                                                   음 성 음
                                                                                                                                                                                                                                                                                                8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                               8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             පි පි
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     쇰
                                                                                                                                         ઠે
                                                                                                                                                            ብ &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                 BI
                                                                                 OTHER INFORMATION: /Function = "Nucleotides 51 through 1577 encode the amino acid sequence for the murine Scavenger Receptor Class SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          840
                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900
                                                                                                                                                                                                                                                                  TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG .180
                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACTIGICTGTCTACTICTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         999
                                                                                                                                                                                                                                                                                                                         TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                   ACTIGICIGICIACITCITCGAAGIGGICAACCCAAACGAGGICCICAACGGCCAGAAGC 300
                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCACCATGGGCCAGCGTGTTTTATGAACCGCACAGTTGGGTGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                              TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGAGATCCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTATTGGCATTCAGAGCAGTGTAACATGGACTTCCGGGCAGATGTGGGCAC
                                                                                                                                                                                                                                       ccercrccrrcagerccreageccccaagecccrrccececacacecacargecceca
                                                                                                                                                                                                                                                                                                                                                                              TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTCAATGACAACGACACCGTGCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 GCTCGATATTGATGGAGGAGCAGCCTGTGAGCCTGAAGCTGATGATGATCCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                   Gaps
                                                                                                                                                                                   ö
                                                                                                                                                         Length 1785
                                                                                                                                                                                   Indels
                                                                                                                                                                                   ő
                                                                                                                                                         .
9
                                                                                                                                                        8
                                                                                                                                                      Score 1785; 1
Pred. No. 0;
0; Mismatches
  (genomic)
                                                                                                                                                                                   ;
0
                                                                                                                                                      100.0%;
100.0%;
                                                                    LOCATION: 51..1577
OTHER INFORMATION:
                                                                                                                                                   Query Match
Best Local Similarity 100.
Matches 1785, Conservative
MOLECULE TYPE: DNA (9
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
                                                        NAME/KEY:
                                                                                                                            US-10-178-611-3
                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                       -
                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                 ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
```

Qy         781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC         840           Db         781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC         840           Qy         841 CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA         900           Db         841 CCTTCATGACACCACAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA         900           Qy         901 AGCTGACCTACAACGAATCCTCGCTGGAATTCTTCAGCCCCACGTATCCCATGA         900           Db         901 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCACGGCCC         960           Qy         961 CCGATACTTTGCCAACGAGTCTTTGAAGGCATTCCCCCACGTATCACCGCCC         960           Qy         961 CCGATACTTTGCCAACGGGTCCGTCTACCCCACCACACGAAGGCTTCTGCCCATGCC         120           Db         961 CCGATACTTTGCCAACGGGTCCGTCTACCCCACCCAACGAAGGCTTCTGCCCCATGCC         120           Db         961 CCGATACTTTGCCAACGGGTCCGTCTACCCCACCCAACGAAGGCTTCTGCCCATGCC         1020           Db         961 CCGATACTCTGTTTGCCCAACGACCCCCCCCCCAACGAAGGCTTCTGCCCCATGCC         1020	1021 GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC	Oy         1141 ACCCAAGGAGCATTCCTTGTTCCTAGACATCCGGTCATGGGATCCCATGAGTT 1200           Db         1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACGGGATCCCCATGAACTT 1200           Oy         1201 GTTCTGTGAAGATTCTTGTTCAACAACAAGAGGAAACAG 1260           Db         1201 GTTCTGTGAAGATTCTGAACATCTACATCAAGAGGATCGGGCAAACAG 1260           Db         1201 GTTCTGTGAAGATCTGAAGAGCTTGATCAACAACAAACAGAGAAAAACG 1260           Oy         1261 GAAAAATCGAACAATTCTGCCATTGATCAACAACAAAAACAGAGAAAAAACGGAAACAAAC	_o	1581 CGCAGIACGIGCICCIGGGGCCTICGAGGCCICCIGITGCIGGIGCCCATCAICLIGCCAACCGCAGGCCCCAGGGATA 1441 TGCGCAGCCAGGAGAAATGCTTTTTTTTTTTTTTTTTTT	1561 TGCAAGAGCCAAGCTTTAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT  1561 TGCAAGAGCCAAGCTATAGGGTCCTGAAGACCCTATAAGCCCCCCCAAACCTGATAGCTT  1561 TGCAAGAGCCAGCCAGTCCCTGCACCCCGCTTCTTGAGGACTCTCTCAGGGGACAGC  1621 GGTCAGACCAGCCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTCAGGGGACAGC  1621 GGTCAGACCAGCCCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTCAGGGGACAGC  1621 GGTCAGACCAGCCCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTCAGGGGACAGC	Qy         1681         CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACACTGTCGCAGGCAG	RESULT 4 US-10-706-073-3 ; Sequence 3, Application US/10706073
OUTUTE AND A	OS-10-164-863-3  Query Match	Qy         61 GCTCCAGGGGGGGGGTGGGCTTGGGGGCCCCTGGGGCTGCTGTTTGCTGGC 120           Db         61 GCTCCAGGGGGGGCTTGGGGTTTGGGGCCCTGGGGCTTTTTGCTGC	181 TCCGCATAGACCCGAGCAGCTTCGGGATGTGGAAGGAGCATCTCTTTCT  241 ACTTGTCTGTCTTCGAAGTGGTCAACCGAAGGAGTCCTCAACGGCCAGAAGCTCTTTCT  241 ACTTGTCTTTTCTTCGAAGTGGTCAACCGAAGGAGTCCTCAACGGCCAGAAGC	Db   301 CGTAGTCGGGGGCGGGCCCTATGTCTAGGGGGGGTCTAGGTCTAGGGGGGGCGGCGGGGGGGG		Qy         601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 660           Db         601 ACGATCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA 660           Qy         661 AATTTGGCCTGTTTGTTGGGAACACTCGAATTCTGGGGTCTTCACGG 720           Db         661 AATTTGGCCTGTTTGTTGGGAATGACAACTCGAATTCTGGGGTCTTCACGG 720           Db         661 AATTTGGCCTGTTTGTTGGGAATGAACACCGAATTCTGGGGGTCTTCACTGTTTCACGG 720	Qy       721 GCGTCCAGAATTTCAGCAGCATCCATCTGGTGGACAAATGGAACGCACTCAGCAAGATCG 780         Db       721 GCGTCCAGAATTTCAGCAGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG 780

780 840

```
CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCC 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCACCAGTGCCATGGCCCTGAGCCCCCAGATGTCACACCTGTCCGCACGCCACGCCACTGG 1740
                                                                                                                                                                                                                                                                                                                                                                      CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCGGTCACTGGGATCCCCATGAACT 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1441 TGCGCAGCCAGGAGAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                                                  AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC 960
                                                                                                                                                                               781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 840
                                                                                                                                                                                                                                            CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900
                                                                        ACCCCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTTCTGTGAAGATGCAGCTGAGCCTCTACATCTAAATCTGTCAAGGGCATCGGGCAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGTGCTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1321 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1381 CGCAGTATGTGCTGCTGGGGCCTTGGAGCCTCCTGTTGCTGCTGCTCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCGCAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCAAGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGTCAGACCAGCCCACCCCATACACCCCGCTTCTTGAGGACTCTCTCAGGGGACAGC
     AATTTGGCCTGTTTGTTGGGATGAACACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                          AATTTGGCCTGTTTGTTGGTGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                             901 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGCAGTATGTGCTGCTGCGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCTGCCAAGGGCACGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1741 ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1681
                                        661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681
     199
                                                                          721
                                                                                                          721
                                                                                                                                              781
                                                                                                                                                                                                                       841
                                                                                                                                                                                                                                                           841
                                                                                                                                                                                                                                                                                                                                  901
                                                                                                                                                                                                                                                                                                                                                                    961
                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1561
                                                                        8 8
                                                                                                                                     8 B 8
                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                           8 8
                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                              8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ጵ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                              APPLICANT: Krieger, Monty
TITLE OF INVENTION: R-B1 Antagonist And Use Thereof As Contraceptives And
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REPERENCE: MIT8299
CURRENT APPLICATION NUMBER: US/10/706,073
CURRENT APPLICATION NUMBER: 09/148,012
PRIOR PILING DATE: 1998-10-04
PRIOR PILING DATE: 1998-10-04
PRIOR PILING DATE: 1998-10-05
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCACCATGGGCCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCCAGACATGCTTCCCATAAAGGGCA 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 ccercircricarcricasccccasasaccccrirccscacacccasarasscaras
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 resecenterearearecrearesecerecereareaseaseaseaseaseaseasease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTICAATGACAACGACACGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCGATATTGATGAGAGAGAGAGAGCCTGAGAGCTGAAGCTGATGATGACCTTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGGGAGATCCTGTGGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACAGGGCGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  derecadededederederedeeringederingededeceeeringereringeredede
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACTIGICIGICIACTICCTICGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTCGATATTGATGGAGGCAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc feature
LOCATION: _(51) _ (1577)
OTHER INFORMATION: Encodes the amino acid sequence for the murine
OTHER INFORMATION: Scavenger Receptor Class BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1785;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 1785;
100.0%; Pred. No. 0;
tive 0; Mismatches
Publication No. US20040077526A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 100.0
Matches 1785; Conservative
                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORU
US-10-706-073-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      501
                                                                                                                                                                                                                                                                                                                                FEATURE:
```

ઠે 셤 ઠે 셤 ò 셤 ð 셤 ð 유 8 셤

ò 셤 ò 용 ò 셤 ò g

ሯ

1140

960

900

1200

1320 1380 1380 1440 1440

1320

φ

us-08-765-108-7.rnpbm

```
1321 GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081 ACCCCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140
                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       960
                      241 ACTIGICTIGITICITICITICGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 300
                                                                                          301 CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 360
                                                                                                                                                                          420
                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                      540
                                                                                                                                                                                                                                                                                                                                                         600
                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                             99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961 CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1201 GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTG
                                                                                                                                         361 CCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                             541 TCACCATGGCCAGCGTGCTTTTATGAACCGCACAGTGAGATGCTGAGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661 AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901 AGCIGACCTACAACGAATCAAGGCTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    901 AGCTGACCTACAACGAATCAAGGCTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCCATCGGGCAAACAG
                                                                                                                                                                                                                                                                                                           GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         721 GCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTCATGACACCCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACT
                                                                       CAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA
                                                                                                                                                                                                               ACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGG
                                                                                                                                                                                                                                   GCTCGATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGATGACCTTGGCGCTGG
                                                                                                                                                                                                                                                                                                                                                       541 TCACCATGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                601 ACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGGTCTTCACTGTCTTCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781 ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1141
                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          196
                                                                     301
                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                       ò
                                                                                                                                                                          셤
                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                             셤
                                                                     ò
                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: 51..1577
OTHER INFORMATION: /Function = "Nucleotides 51 through 1577
OTHER INFORMATION: Class encode the amino acid sequence for the murine Scavenger Receptor Class SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCGGCGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGGGCAGCAGGTGCTCAAGAATG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGAGACCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCGTCTCCTTCAGGTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                               Sequence 3, Application US/10933037
Sequence 3, Application US/10933037
Publication No. US20050136005A1
GENERAL INFORMATION:
APPLICANT: MONLY Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
REPREST: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1785;
STATE: Georgia

STATE: 30309-3450

ZIP: 30309-3450

COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION LORBER: US/10/933,037
FILING DATE: 02-Sep-2004
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMONICATION INFORMATION:
TELECOMONICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 1785;
llarity 100.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPAX: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1785 base pairs
TYPE: MUCleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
MOLECTLE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: CDS
                                                                                                                                                                                                                                                                                   CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 1785; Conserv
                                                                                        US-10-933-037-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-933-037-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
```

us-08-765-108-7.rnpbm

383 ACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 442 30.1 CAGTAGTCCGGGAGCGTGGACCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCA 360 443 CAGTAGTCCGGGAGCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 502 443 CAGTAGTCCGGGAGCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCA 502 361 CCTTCAATGACAACAACAACCACGTGTCCTTCGTGAGAAACCGCAGCCTCCATTTCCAGCCTG 420 503 CCTTCAATGACAACAACAACAACAACATGTACATGACTACACTTGGTCCTGGGGG 480 51 ACAAGTCGCAAGAAGAGTGACTACATTGTACTTGCCTAACATTTGGTCCTGGGGG 480 563 ACAAGTCGCATGAGAAGAGTGACTACATTGTACTTGCCTAACATTTTGGTCCTGGGGG 622 681 GCTCGATATTGATGGAGAGAGAGACTACATTGTACTGCCTAACATTTTGGTCCTGGGGG 622 682 GCTCGATATTGATGGAGAGAGCAAGCCTGAAGCTGAAGCTGATGATGATGACCTTGGCGCTGG 682 623 GCTCGATATTGATGAAGACAAAGCCTGTGAGCCTGAAGCTTGACCTTGGCGCTGG 682	TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG [	661 AATTIGGCCIGITIGGGAIGAACAACTCGAATTCTGGGGTCTTCACTGCCGG 720	ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCAC 	841 CCTTCATGACACCGGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA 900	961 CCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAACGAAGGCTTCTGCCCATGCC 1020 	GAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCCCCTCTGTTTCTCTCTCCCCGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGGGCCTCTGTTTCTCTCCCC	1081 ACCCCACTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTA 1140	1141 ACCCAAAGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT 1200 	1201 GTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAG 1260 	1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGGTTCGAACAGAGCGGAGCAATGGGTG 1320 	1321 GCAAGCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG 1380
8 6 8 6 8 6 8 8	8 8 8 8	8 8 8 8	8 & B	8 8 8	SP GA	ර් සි	රි සි	ඊ සි	පි සි	8 8	장 옵 ·
					•					-	
		Oy 1741 ATGCCCACGCATGTGCAAAACAACTCAGGGACCAGGGACAGACC 1785 	US-10-322-281-564 ; Sequence 564, Application US/10322281 ; Publication No. US20040126762A1 ; Publication No. US200A0126762A1 ; ADBLEL INFORMATION:	AFPLICANT: MAX.C S. Malandro TITLE OF INVENTION: Novel Compositions and Methods in Cancer TITLE OF INVENTION: Novel Compositions and Methods in Cancer FILE REPRESENCE: 529452001000 CURRENT APPLICATION NUMBER: US/10/322,281 NUMBER OF SEQ ID NOS: 866 SOFTWARE: FASTSEQ for Windows Version 4.0	; SEQ 1D NO 564 ; IENGTH: 2496 ; TYPE: DNA musculus US-10-322-281-564	Query Match 100.0%; Score 1785; DB 7; Length 2496; Best Local Similarity 100.0%; Pred. No. 0; Matches 1785; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	CCCGAGAGCCCTTCCGCGCACGCGGGACATGGG				ACTIGECTICACTICATICANGEGICANCCANCCANGGICCACCCANGGICGCANGANG 30

649 480 709 540 769 900 829 999 889 720

us-08-765-108-7.rnpbm

```
CTCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAA 1549
301 GGUCCUGGGGGGCUCGAUAUUGAUGGAGGGAAGCCUGUGAGGCCUGAAGCUGAUGACGAUGAUGACGAC
                                                                                                                        901 GUUUCUCUCCCCCCCCCCCCCCCCCUUUJACAACGCCGACCCCUGUGUUGUCGCAGAAGCUGUUCUGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               190 CCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACAACAAATCTGTCAAGGGCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1021 CCCCAUGAACUGUUCUGUGAAGAAGCAGCUGAGCCCCUACAACUCAAAUCUGUCAAGGGCAU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGGCAAACAGGGAAGATCGAGCCAGTACTGCCGTTGCTGTGGTTCGAACAGAGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCAATGGGTGGCAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGT
                                                                                                                                                                                  CAGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATTCAATGGGACTTCCGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                 CTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1370 TCTTCACTACGCGCAGTATGTGCTGCTGCGCCTTGGAGGCCTCCTGTTGCTGGTGCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATCTGCCAACTGCGCAGCCAGGAGAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAAGGG
                                                                             CTTGGCGCTGGTCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCT
                                                                                                                                                                      CATAAAGGGCAAATTTGGCCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCAC
                                                                                                                                                                                                                 710 TGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACT
                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                             770
                                                                                                                                                                                                                                                                                                                              661 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1490
                                                                                                                                                                     650
                                                                                                                                                                                                                                                                                                          830
                                                                                                                                                                                                                                                                                                                                                                                                                                            1010
                                                                                                                                                                                                                                                                                                                                                                                                 950
                                 470
                                                                              530
                                                                                                                         590
                                                                                                                                                421
                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          중 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 & 8
                                                                                             셤
                                                                                                                                            g
                                                                                                                                                                                      В
                                                                                                                                                                                                               8
                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 쉼
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                ઠે
                                                    셤
                                                                            8
                                                                                                                        ઠ
                                                                                                                                                                  ठे
                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                              1642
                                                                                                   1560
                                                                                                                         1702
                                                                                                                                                1620
                                                                                                                                                                     1762
                                                                                                                                                                                            1680
                                                                                                                                                                                                                                        1740
                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTT 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                   TGCGCAGCCAGGAGAAATGCTTTTTTTTTGGAGTGGTTAAAAAGGGCTCCCAGGATA
                                                                                                   AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC
                                                                                                                                                           TGCAAGAAGCCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                         CGCAGTATGTGCTGGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC
                                                       TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAAGGGCTCCCAGGATA
                                                                                                                         AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGGCTGCCAAGGGCCACGGTGC
                                                                                                                                              TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                                                                                                                                                            GGTCAGACCAGCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGACAGC
                                                                                                                                                                                                                 GGTCAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGC
                                                                                                                                                                                                                                      CGTCCCTTTCTACTTGTCTGTCTACTTCTTCGAAGTGGTCAAACCCAAACGAGGTCCTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGTCAACATCACCTTCAATGACAACGACACGTGTCCTTCGTGGAGAACCGCAGCCTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCTCAAGAATGTCGGCATAGACCCGAGCAGGCTGTCCTTCGGGATGTGGAAGGAGATCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                US-09-882-945A-285

i Sequence 285, Application US/09862945A

j Publication No. US20301143535A1

i GENERAL INFORMATION:

i APPLICANT: Lyamichev, Victor

i APPLICANT: Dong, Fang

APPLICANT: Neri, Bruce

i APPLICANT: Vener, Tatiana

i TITLE OF INVENTION: Nucleic Acid Accessible Hybridization Sites

i TITLE OF INVENTION: Nucleic Acid Accessible Hybridization Sites

CURRENT APPLICATION NUMBER: US/09/882,945A

CURRENT APPLICATION NUMBER: US/09/882,945A

SOFTWARE: Patentin version 3.0

SEQ ID NO 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1607;
                                                                                                                                                                                                                                                                                  ATGCCCACGCATGTGCAAAAACAACTCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                               ATGCCCACGCATGTGCAAAAAAAACTCAGGGACCAGGGACAGACC 1927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         90.0%; Score 1607; Dilarity 77.3%; Pred. No. 0; Conservative 364; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 1243; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-882-945A-285
                                                                                                                                                                                                                                                                                  1741
                                                                                                                                                                    1703
                                                                                                                                                                                                                1763
           1381
                                 1523
                                                        1441
                                                                            1583
                                                                                                   1501
                                                                                                                         1643
                                                                                                                                                1561
                                                                                                                                                                                           1621
                                                                                                                                                                                                                                      1681
                                                                                                                                                                                                                                                             1823
                                                                                                                                                                                                                                                                                                        1883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    110
                                                                                          6 6 6 6
                                                                                                                                                                                   Š
                                                                                                                                                                                                         음 중 음
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ያ ዓ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a d
           ઠે
                          용
                                                     5 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

1009

949

840

1069

1129

361 CUUGGCGCUGGUCACCAUGGGCCAGCGUGCUUUNAUGAACCGCACAGUUGGUGAGAUCCU 420	590 GTGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCC 649 [:	650 CATAAAGGGCAAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCAC 709	710 TGTCTTCACGGGGGTCCAGAATTTCAGCAGGATCCATCTGGTGGAATGGAACGGACT 769 :	770 CAGCAAGATCGATTATGGCATTCAGAGCAGTGTAACATGATCAATGGACTTCCGGGCA 829 [	830 GATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATG 889	890 CAGGTCCATGAAGCTGACACAACGAATCAAGGGTGTTTGAAGGCATTCCCAGGTATCG 949	950 CTTCACGGCCCCCGATACTCTGTTTGCCAACGGGTCCGTCTACCCACCC	1010 CTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCT 1069	1070 GTTTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGG 1129	1130 TCTGAACCCTAACCGAAGGATTCCTTGTTCCTAGACATCCATC	1190 CCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCAT 1249 	1250 CGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGG 1309 	1310 AGCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGT 1369	1370 TCTTCACTACGCGCAGTATGTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCAT 1429   1201 UCUUCACUACGCGCAGUAUGUGCUGGGGGCUUGGAGGCCUCCUGUUGCUGGUGCCCAU 1260	1430 CATCTGCCAACTGCGCGGGGGAAAATGCTTTTGTTTTGGGGTGGTAGTAAAAGGG 1489   : :	1490 CTCCCAGAPAAGAAGCCATTCAGGCCTACTCAGATCCCTGATGTCACCAGCTGCCAA 1549  :	1550 GGGCACGGTGCTGCAAGCTAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAA 1609	1610 CCTGATAGCTCAGACCAGCCAGTCCCTACACCCCGCTTCTTGAGGACTCTTT 1669
අු	P &	SP GS	δ q	S G	승 음	<u>8</u>	8 G	S S	SP GS	g ģ	충 <u>음</u>	& a	පි පි	& 8	6 G	<i>&amp;</i> ₽	ያ	& g
																	*	- <del></del> -
3b 1321 CUCCCAGGAUAAGGAGGCCAUUCAGGCCUACUGAGUCCCUGAUGUCACCAGGUGCCAA 1380	2y 1550 GGGCACGCTGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAA 1609	1610   CCTGATAGGTTGGTCAGCCACCCAGTCCCTACACCCGGTTCTTGAGGACTCTCT	1670 CAGGGGACAGCCCACCAGGCCTGAGCCCGGAGTGTCACACCTGTCGCACGC	y 1730 ACGGCACATGGATGCCACGCATGTGCAAAACAACTCAGGACCAG 1776 	NESULT 8 38-10-807-114-285 . Scanners 285 Analisation HE/10002114	Sequence 200, Application 00/1000/114  Publication No. US20040235024A1  GENERAL INFORMATION:  APPLICATION: Lyanichev, Victor	APPLICANT: Dong, Fang APPLICANT: Nori, Bruce APPLICANT: Nori, Bruce APPLICANT: Vener, Tatiana TTTTP OF INVESTIGATION NO. No. 1, 2000-2011	FILE REPERENCE: FORS-04586 CURRENT APPLICATION NUMBER: US/10/807,114 CURRENT FILING DATE: 2004-03-23	FKIDK AFFLICATION NUMBER: US/US/882,945 PRIOR FILING DATE: 2001-06-15 NUMBER OF SEQ ID NOS: 334 SOFTWARE: Patentin version 3.0	SEQ ID NO 263 LENGTH: 1607 TYPE: RNA ORGANISM: YMB musculus	Query Match Query Match Query Match 90.0%; Score 1607; DB 8; Length 1607; Best Local Similarity 77.3%; Pred. No. 0; Matches 1243; Conservative 364; Mismatches 0; Indels 0; Gaps 0;	GACCCGAGCAGCCTGTCCTTCGGGATGTGGAAGGAGAGTCC 22	STCCTCAA  :  :    SUCCUCAA	CGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCTATGTCTACAGGGAGTTCAGAAAAA	350 GGTCAACATCACCTTCAATGACAACGACACCGTGTCCTTCGTGGAGAACGCAGCCTCCA	410 TTTCCAGCCTGACAGGCTCAGAGAGTGACTACATGTACTGCCTAACATCTT 241 [		530 CTTGGCGCTGGTCACCATGGGCCAGCGTGCTTTATGAACCGCACAGTTGGTGAATCCT 5

	453 CAGTAGTCCGGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTTAACATCA 512  361 CCTTCAATGACAACGACCCTGTCCTTCGTGAGAAACGCTCCATTTCCAGCCTG 420	TCACCATGGGCCAGCGTGCTTTTATGAACCGCACAGTGGTGAGATCCTGTGGGGGTTTTGTCTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATG  TCACCATGGGCCAGCGCGTTTTATGAACCGCACGGTTGGTGGAGATCCTGTGGGGCTATG  ACGATCCCTTGGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCA  AAGATCCCTTGTGAATTTCCTCAGAAATTTCCCAGACATGTTCCCCATCAAGGGCA  AATTTGGCCTGTTTGTTGGATGAACAACTTCGAGATTCTGGGGTTTCCTCACGG  AATTTGGCCTGTTTGTTGGATGAACAACTTCAGAGTTCTTCACGGTTTCACGG	GCGTCCAGAATTTCAGCAGATCCATCTGGTGGACGAACGGACTCAGCAAGTCG GCGTCCAGAATTTCAGCAGATCCATCTGGTGGACAAACGGACTCAGCAAGATCG TTATTGGCATTCAGAGCATCTTCTGGTGGATAAGTGGAACGGCTCAGCAGTCA ATTATTGGCATTCAGAGCAGTGTAACATGATCAATGAGACTTCCGGGCAGATGTGGGCAC ACTATTGGCATTCGGAGCAGTGTAACATGATCAATGAGACTTCCGGGCAGATGTGGGCAC CCTTCATGACATTCGGCAGAACATGATCAATGATCTCAGCCGGAGGCAGATGTGGGCAC CCTTCATGACACCCGAATCCTCCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGA	901 AGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCC 960	1081 ACCCCCACTTTACAACGCCGACCTGTGTTGTCAGAAGCTGTTTTGGTCTGAACCCTA 1140  [11] [
6 6 6 6 	8 8 8 8 8 8	3 6 8 6 8 6	3 6 8 6 8 8 8	8 8 8 8 8	8 8 8 8 8 8
dy         1670         CAGCGGACACCCCCACTGGCCTGACCCCCCAGATGTCACCTGTCCGCACGC         1729           bb         1501         CAGCGACAGCCCACCAGGGCCUGAGCCCCCAGAUGUCACACCUGUCCGCACGC         1560           Qy         1730         ACGGACATGGATGTGCAAAAACAACTAGGGACCAG         1776           Db         1561         ACGGCACAUGGCCACGCATGTGCAAAAACAACTAGGGACCAG         1776           Db         1561         ACGGCACAUGGCCACGCAUGUGCAAAAACAACCAG         1607	RESULT 9 US-10-152-319A-1909 ; Sequence 1909, Application US/10152319A ; Publication No. US20040072160A1 ; GENERAL INFORMATION: ; APPLICANT: Mendrick, Donna ; APPLICANT: Johnson, Kory ; APPLICANT: Johnson, Kory ; APPLICANT: Elashoff, Michael ; APPLICANT: Elashoff, Michael ; APPLICANT: Elashoff, Michael	FILE REFERENCE: 44921-5089-US CURRENT APPLICATION NUMBER: US/10/152,319A CURRENT FILING DATE: 2002-05-22 FRIOR APPLICATION NUMBER: US 60/292,335 FRIOR PELING DATE: 2001-05-22 FRIOR PELING DATE: 2001-06-13 FRIOR PILING DATE: 2001-06-13 FRIOR PILING DATE: 2001-06-13 FRIOR PILING DATE: 2001-06-19 FRIOR PILING DATE: 2001-06-19 FRIOR PILING DATE: 2001-06-19 FRIOR PILING DATE: 2001-06-19 FRIOR PILING DATE: 2001-06-19 FRIOR PILING DATE: 2001-06-19 FRIOR PILING DATE: 1001-06-19 FRIOR PILING DATE: 1001-06-19	PRIOR FILING DATE: 2001-07-10 PRIOR FILING DATE: 2001-07-10 PRIOR PLING DATE: 2001-07-10 PRIOR PLING DATE: 2001-07-10 PRIOR APPLICATION NUMBER: US 60/315,047 PRIOR FILING DATE: 2001-08-28 PRIOR PLING DATE: 2001-09-27 PRIOR PLING DATE: 2001-10-27 PRIOR FILING DATE: 2001-11-01 PRIOR FILING DATE: 2001-11-01 PRIOR FILING DATE: 2001-10-22 PRIOR FILING DATE: 2001-10-22 PRIOR PRIOR PLING DATE: 2001-10-22 PRIOR PLING DATE: 2001-10-22 PRIOR PLING DATE: 2001-10-22	; NUMBER OF SEQ ID NOS: 2221 ; SOFTWARE: PatentIn Ver. 2.1 ; SEQ ID NO 1909 ; LENGTH: 2497 ; TYPE: DNA ; TYPE: DNA ; ORGANISM: Rattus norvegicus ; PEATURE: ; OTHER INFORMATION: Genbank Accession No. NM_031541 US-10-152-319A-1909 Query Match Best Local Similarity 90.64; Score 1459.4; DB 7; Length 2497; Best Local Similarity 90.64; Pred. No. 0; Marches 1556: Conservative 0: Mismarches 151. Indels 0: Gans 0;	

484

604

769 724 829 784 889 844 949 904

원 ò g 8 а ò g Š 名 ò 셤 ò 셤 ઠ 요

```
1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCTGTTTCTGTCACACCC 1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1070 AACTTTGTTTGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA 1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1190 TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC 1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGGTGGCAA 1324
                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCGC 589
                                                                                                                                                                                                                                                                                                                                                           CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGA 709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATT 664
                                                                                                                                                                                                                                                              AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                candacaccccagnccrcecregaarrcrrcagrccegaagccrecaggrcrangaagcr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAGGAACATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                     Grecereraciretregageregreareceagegagarecraaagegreagageege
                                                                                                                                                                                                                                                                                                              CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      485 GATATTGATGGAGAGCAAGCCTGTGAGCCTGAAGCTGATGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTTGGGCTCTTCACTGTGTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        890 credecarreaegecaegecaegecaegecaegececegecaegecececarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1085 CCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGGATCCCCATGAACTGTTC
     CATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                  caradaceceadedecergreerringeaardrogaagaacerecergraeerre
                                                                                                     GTCTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                   GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGCCTGTTTGTTGGGATGAACACTCGAATTCTGGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1310
                                                  290
                                                                                                     245
                                                                                                                                                     350
                                                                                                                                                                                                        305
                                                                                                                                                                                                                                                           410
                                                                                                                                                                                                                                                                                                                                                              470
                                                                                                                                                                                                                                                                                                                                                                                                                 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            965
     185
                                                                                                                                                                                                                                                                                                              365
                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  음 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                        셤
                                                                                                     ઠ
                                                                                                                                        셤
                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                           8 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         용 · 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1772
                                                     1380
                                                                                                                                                                                     CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTCTTCTGGTGCCCATCATTTACCAAC 1592
                                                                                                                                                                                                                                                                                                                                                           AGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGC 1560
GGAAGATCGAGCCAGTAGTCCTGCCATTGCTGTGGTTCGAACAGAGCGGGATGATGGGTG 1472
                                                                        CGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAAC 1440
                                                                                                                                                                                                                                                        TGCGCAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATA 1500
                                                                                                                                                                                                                                                                                      AGGAGGCCATGCAGGCCTACTCTGAGTCTCAGATGTCACCAGCTGCCAAGGGCACGGTAC 1712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCAGCGGACAGC 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1773 dérchédecchécécécéchérecethéchécecentricies de réprédéchéde de 1832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCAAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTT
                                                GCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1713 TGCAAGAAGCCAAGCTGTAGGGCCCAGAAGACACCACGAGCCCCCAAACCTGATAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCCTTCAGTCCCTGAGCCCGGGGAGCCCGGCCACACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               caddececectrederecerredecredecerreredecerrecrerecerrere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 CICCITCAGGICCIGAGCCCCCGAGAGCCCCTICCGCGCACGCGCGCACAIGGGCGCGCAGCIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 3, Application US/09779152

Publication No. US20030044782A1

SENERAL INFORMATION:
APPLICANT: Acton, Susan L.
APPLICANT: Acton, Susan L.
APPLICANT: Drdovas, Jose M.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILE REFERENCE: NNI-172CP2
CURRENT FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: 08/990,979
PRIOR FILING DATE: 1997-07-10
NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGINE APPLICATION OF SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 3; Length 1825;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          193; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTCAGACCAGCCACCCCTACACCCCCGCTTCTTGAGGACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACAC 1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cceccaereccacercereaecccccaearercacae 1869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    78.2%; Score 1396.2;
88.7%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; NAME/KEY: CDS
; LOCATION: (156)..(1682)
US-09-779-152-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 1523; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Human
FEATURE:
                                                                                                                                                   1381
1413
                                                                                                1473
                                                                                                                                                                                                     1533
                                                                                                                                                                                                                                                        1441
                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1833
                                                  1321
                                                                                                                                                                                                                                                                                                           1593
                                                                                                                                                                                                                                                                                                                                                                                                              1653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
```

1009

964

1084

1204

ઠે ద ઠે

ሯ 셤

8 8 8

ð g 8 유 ઠે

```
1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  964
                                                                                                                                   409
                                                                                                                                                                                                     469
                                                                                                                                                                                                                                                                                                                                                                                                           649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  949
                                                                                                                                                                                                                                      424
                                                                                                                                                                                                                                                                        529
                                                                                                                                                                                                                                                                                                         484
                                                                                                                                                                                                                                                                                                                                        589
                                                                                                                                                                                                                                                                                                                                                                          544
                                                                                                                                                                                                                                                                                                                                                                                                                                            604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  890 CIGGCAITCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATT
   230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                        350 GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGTGAGAAAGCCAGT
                                                                                                                                                                                         410 AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                          530 GTCCCACGGCTCTGAGAGTGACTACATTATACTGCCTAACATTCTGGTCTTGGGGGGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               830 CCAGAACTTCAGCAAGATCCACCTGGTGGACAGATGGAATGGGCTCAGCAAGGTCAACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAAGGAGCATTCCTTGTTCCTAGACATCCAGGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1310 TGTGAAGTTGCAGATAAGCCTCTACAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA
                                                                                                                                                                                                                                      CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                        485 GATATTGATGGAGGAAGCCTGTGAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                             770 CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    950 CATGACACCCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1025 GICTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCACCCCCTGTTTCTGTCACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1250 AAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                         425 GICGCAIGGCICAGAGAGIGACIACAIIGIACIGCCIAACAICTIGGICCIGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                               650 CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCCATAAAGGGCCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         710 TCCCTTCGTGAATTTTATCAACAATACTTACCAGACATGTTCCCCATCAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TIGGCATICAGAGCAGIGIAACAIGAICAAIGGGACTICCGGGCAGAIGIGGGCACCCIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    965 TACTCTGTTTGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1085 CCACTTTTACAACGCCGACCCTGTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                  CATAGACCCGAGCAGCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                    290 CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                            CATGGGCCAGCGTGTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               665 TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   845 CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1205
                                                                                                                                                                                                                                                                                                                                                                                                                                            545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1145
                                    185
                                                                                                     245
                                                                                                                                                                      305
                                                                                                                                                                                                                                      365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                     ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                  ઠે
                                                                a
                                                                                                                               ብ
                                                                                                                                                                    ò
                                                                                                                                                                                                  a
                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                     ò
                                                                                                                     1444
                                                                                                                                                      1549
                                                                                                                                                                                                                                                                                       1669
                                                                                                                                                                                                                                                                                                                                                                                                                            1789
1489
                                                                                                                                                                                       1504
                                                                                                                                                                                                                       1609
                                                                                                                                                                                                                                                      1564
                                                                                                                                                                                                                                                                                                                         1624
                                                                                                                                                                                                                                                                                                                                                        1729
                                                                                                                                                                                                                                                                                                                                                                                         AGACCAGCCACCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCCCAC 1684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         64
                                                                                                                                      GTATGTGCTGGGGCTGGGCGCCTCCTGCTGGTGCCCGTCATCTACCAGTTGCG
                                                                                                                                                                                                       GCCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGGCCAAGGCACGCTGCCA
                                                                                                                                                                                                                                                                                                                                                                                                              AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCACGCGGACAGTCCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCCTTCAGTCCTGAGCCCGCGAGCCGGGCCGCACCACGCGGACATGGGCGGCGCGCC
                                                                    GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATGTGCA
                                                                                                                     GTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGCTGCCCCATCATCTGCCAACTGCG
                                                                                                                                                                                     CAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAAAAAAAGGGCTCCCAGGATAAGGA
                                                                                                                                                                                                                                                      GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA
                                                                                                                                                                                                                                                                                                                         AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                               AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1825;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 3, Application US/10023610

Sequence 3, Application US/10023610

Publication No. US200300230591

APPLICANT: Acton, Susan L.

TITLE OF INVENTION: SE BI NUCLEIC ACIDS AND USES THEREFOR FILE REFERNCE: MLA-005.03

CURRENT FILING DATE: 2001-12-17

BARLIER PILING DATE: 2001-10-10

BARLIER PILING DATE: 2000-10-10

BARLIER PILING DATE: 1998-02-27

BARLIER FILING DATE: 1998-02-27

BARLIER FILING DATE: 1997-07-10

NUMBER: OF SEQ ID NOS: 121

SOFTWARE: PELING DATE: 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 1396.2; DB 5; Length
Pred. No. 0;
0; Mismatches 193; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGTGCCATGGCCTGAG-CCCCAGATGTCACACTGT 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGT 1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       78.2%;
88.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 88.7
Matches 1523; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; NAME/KEY: CDS
; LOCATION: (156)..(1682)
US-10-023-610-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
ORGANISM: Human
                                                                                                                                                                                                                                                                                       1610
                                                                                                                                                                                                                                                                                                                                                                                                                          1730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1790
                   1370
                                                                                  1430
                                                                                                                     1385
                                                                                                                                                    1490
                                                                                                                                                                                       1445
                                                                                                                                                                                                                       1550
                                                                                                                                                                                                                                                      1505
                                                                                                                                                                                                                                                                                                                         1565
                                                                                                                                                                                                                                                                                                                                                      1670
                                                                                                                                                                                                                                                                                                                                                                                           1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          125
```

셤

셤

8 셤

ò

6 6 6 6

a

185 CATAGACCCGAGCCTGTCCTTCGGGATGTCGAAGGAGATCCCCGTCCCTTTCTACTT 244	470 CAATGACAATGATACTGTCCTTTGTGGAGCACGCAGCCCCATTTCCAGCCGGACAG 529  425 GTCGCATGGCTCAGAGGAGGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGG	CATGGGCCAGCGTGCTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA	665 TGGCCTGTTTGTTGGGATGAACACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT 724		CATGACACCCGAATCCTCGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT 	GACCTACAACGAATCAAGGGTGTTTGAAGGATTCCCACGTATCGCTTCACGGCCCCCGA	TACITY OF THE CONTROL OF THE PROCESS	1025 GICTGGCATTCAGAATGICAGGACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC 1084	1085 CCACTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1144	1145 AAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACTGTTC 1204	tgtgaagatgcagctgagcctctacatcaaatctgtcaagggcatcgggcaaacagggaa 	1265 GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA 1324
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8	6 8 6	5 8 8	음 <b>상</b> 음	& 48	6 6 6	충 음 성	ò 8	<b>상</b> 점	දු දු	<b>장</b> 옵	ò
												-
1265 GATCGAGCCAGTAGTTCTGCCGTTGCTTCGAACAAGCGGAGCAATGGGTGGCAA   1324	CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAGGGCTCGCAGGATAAGA GGCCATTCAGGCTTCTGAGTCCTGAGTGAAAAGGGCTCGCAGGATAAGGA GGCCATTCAGGCCTACTCTGAGTCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA	1625 AGACGAGCTGTAGGGTCCCAAGACACCACGAGCCCCCCAACCTGATAGCTTGGTC 1729 1625 AGACCAGCCACCAGTCCCTACACCCCGCTTCTTGAGGACTCTTCTAGGGACACCCCCA 1684	1790 CAGTGCCATGGCCTGAG-CCCCAGATGTCACACCTGT 1825 12 212-848-3	Lication No. US20040023225A1 ERAL INFORMATION: PLICANT: MCCARTHY, Jeanette TLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING RISK FACTORS TILE OF INVENTION: FOR ABNORMAL LIPID LEVELS AND THE DISEASES AND DISORDERS TILE OF INVENTION: ASSOCIATED THEREWITH	UE KEFEKENCE: MM1-012 RRENT APPLICATION UUMBER: US/10/212,848 MERNT FILING DATE: 2002-08-05 MBER OF SEQ ID NOS: 121 FTWARE: Patentin Ver. 2.0	ID NO 3 ENGTH: 1825 FPE: DNA GGANISM: Homo sapiens	21.0% DCATION: (156)(1682) -212-848-3	cy Match 78.2%; Score 1396.2; DB 7; Length 1825; Local Similarity 88.7%; Pred. No. 0; hes 1523; Conservative 0; Mismatches 193; Indels 1; Gaps 1;	46CCCCGAGAGCCCCTTCCGCGGACAGGGGACATGGGCGGCAGCTC 64			

CATAGACCCGAGCAGCCTGTCCTTCGGGÀTGTGGAAGGAGATCCCCGTCCCTTTCTACTT  CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCCGTCCCTTTCTACTT  CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCTTTCTACTT  GTCTGTCTACTTCTTCGAAGTGGTCAACCCAACGGGTCCTCTAACGGCCAGT  AGTCCGGGAGCGTGGTCCTATGTCTACAGGGAGTTCAGAAAAGGTCAACAGT  AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATTCCAGGCGGTGGAGATCCTTTGGGGGAGTCAAAAGGCCAACATTTCCAGGCGGTGGACCCTATGTCTACAGGGAAATTCAGACAATAAAGGCCAACACTTTCCAGGCCGGACAG  CAATGACAATGATAATAATGACTTACTTGAGGGAACCCTAACACTTTCCAGGCCGGACAG  GTCGCATGGCTCAGAGAGAAACAATTATACTGCCTAACATTTCCAGGCCTGGGGGCTC	10   TCCCTTCGTGGATTTTATCAACAAATACTTACCAGACATGTTCCCCCATCAAGGGCAAGTT
68686868686	8
	NESULT 13 19-148-012-1 19-148-012-1 19-148-012-1 19-148-012-1 19-15-0148-012-1 19-15-012-1

ö

Gaps

ö

64

124

289

304

409 364 469 484

```
OTHER INFORMATION: /function= "Nucleotides 156 through 1683 encode the amino acid sequence for the Hamster Scavenger Receptor Class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          590 AGTAATGAAGGGAAGCAGCCTGAAGCTGAAGCTGATGACGTTGAGGGCTGGCCAC 649
                                                                                                                                                                                                                                                                                                                                                   110 CCCCTTCAGTCCCTGAGCCCCGCGAGCCCGGGCCGCACACGCGGACATGGGCGGCAGCGC 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             125 CGTTGTCATGATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   650 CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGA 709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           830 CCAGAACTTCAGCAAGATCCACCTGGTGGAACAGAATGGAATGGGCTCAGCAAGGTCAACTA 889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAA 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        470 CAATGACAATGATACTGTGTCCTTTGTGGAGCACCGCAGCCTCCATTTCCAGCCGGACAG 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        785 TIGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTT 844
                                                                                                                                                                                                                                                                                                                                                                                                    230 IGIGGITATGATCCTCGTGATGCCCTCGCTCATCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GICTGICTACTICTICGAAGIGGICAACCCAAACGAGGICCTCAACGGCCAGAAGCCAGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      710 TCCCTTCGTGAATTTTATCAACAAATACTTACCAGACATGTTCCCCATCAAGGGCAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               770 CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CATAGACCCGAGCAGCCTGTCCGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  350 GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAGGGGTGAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           adrigodododocorparororadodoaniroadacaraadocoaacarcacorr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCGCATGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               485 GATATTGATGGAGAGCGAAGCCTGAAGCCTGAAGCTGATGATGACCTTGGCGCTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            545 CATGGCCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCCTTCGTGCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCCAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    665 TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              725 CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       890 CTGGCATTCAGAGCAGTGCAACATGATCAATGGCACTTCCGGGCAGATGTGGGCACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             950 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT
                                                                                                                                                                                                                                                                                                     5 CTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGGACATGGGCGCGGCAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                           Length 1788;
                                                                                                                                                                                                                                 Pred. No. 0;
0; Mismatches 192; Indels
                                                                                                                                                                                                           Score 1369.8; DB 6;
                                                                                                                                          SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                        NAME/KEY: misc feature
LOCATION: 156...1683
OTHER INFORMATION: /fur
                                                                                                                                                                                                           76.7%;
88.6%;
                                                                                                                                                                                                                                 Best Local Similarity 88.6
Matches 1485; Conservative
  FEATURE
                                                                                                                                                             US-10-178-611-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           410
                                                                                                                                                                                                                                                                                                                                                                                                                                               170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                305
                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ·유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                            1384
                                                                                                                                                                                     1444
                                                                                                                                                                                                                                                                               1504
                                                                                                                                                                                                                                                                                                                                                                                                    GECCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1670 AGAAGCCAAGCTGTAGGGTCCCAAAGACACCACGAGCCCCCCCAACCTGATAGCTTGGTC 1729
                                         1370 darcaacccerecrecrecearrecrereres 1429
                                                                                                                                     1430 GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATGTGCA 1489
                                                                                                                                                                                                                                 1490 GTATGTGCTGCTGGGGGCTGGGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGCG 1549
                                                                                                                                                                                                                                                                                                                           CAGCCAGGAGAAATGCTTTTTATTTTGGAGTAGTAGTAAAAAAGGGCTCGCAGGATAAGGA 1609
GATCGAGCCAGTAGTTCTGCCGTTGCTGTTCGAACAGAGCGGAGCAATGGGTGGCAA 1324
                                                                                                                                                                                                                                                                                                                                                                           GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1565 AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1625 AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTTCAGCGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1730 AGACCAGCCATCCAGCCCCTACACCCCCCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                         GCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTTCTTCACTACGCGCA
                                                                                                                                                                                   GTATGTGCTGCTGGGGCCTTCCTGTTGCTGGTGCCCCATCATCTGCCAACTGCG
                                                                                                                                                                                                                                                                               CAGCCAGGAGAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1, Application US/10178611
Publication No. US20030167475A1
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory STREET: 2800 One Atlantic Center 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: Georgia
COUNTRY: USA
ZIF: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/749,907
FILING DATE: <UNknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/178,611
FILING DATE: 24-Unn-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENCE CHARACTERISTICS:
LENGTH: 1788 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
US-10-178-611-1
1265
                                                                                                                                                                                                                                                                                                                                                                                                                       1610
                                                                                                                                                                                   1385
                                                                                                                                                                                                                                                                               1445
                                                                                                                                                                                                                                                                                                                           1550
                                                                                                                                                                                                                                                                                                                                                                           1505
ઠે
                                      g
                                                                                         ð
                                                                                                                           ద
                                                                                                                                                                                   ò
                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
```

1009

949

769

664

604

829

784

ဌ

```
Scavenger Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                950 CATGACACCCCAGTCCTCGCTGGAATTCTTCAGTCCGGAAGCCTGCAGGTCTATGAAGCT 1009
                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    949
                                                                                                                                                                                                                169
                                                                                                                                                                                                                                                                                                                                         289
                                                                                                                                                                                                                                                                                                                                                                                                       349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         784
                                                                                                                                                                                                                                             124
                                                                                                                                                                                                                                                                                                                                                                          244
                                                                                                                                                                                                                                                                                                                                                                                                                                       304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              905 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCAGGTATCGCTTCACGGCCCCCGA 964
                                                                                                                                                                                   64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               770 CGGCCTGTTTGTTGAGATGAACAACTCAGACTCTGGGCTCTTCACTGTGTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       110 CCCTTCAGTCCCTGAGCCCCGCGAGCCGGGCGCGCACACGCGGACATGGGCGGCAGCGC
                                                                                                                                                                                                                                               230 TGTGGTTATGATCCTCGTGATGCCCTCGCTCAAACAGCAGGTACTGAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                            290 CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGAGATCCCTGTACCCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTCCGTCTACTTCTTCGAGGTGGTCAATCCCAGCGAGATCCTAAAAGGGTGAAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTCCGGGAGCGTGGACCCTATGTCTACAGGGAGTTCAGACAAAAGGTCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        485 GATATTGATGGAGAGAGAGAGCTGTGAAGCTGATGATGATGACCTTGGAGGTGGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        590 AGTAATGATGGAGAGCAAGTCTGCAGGCCTGAAGCTGATGATGACCTTGGGGCTGGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    650 CTTGGGCCAGCGTGCCTTTATGAACCGAACAGTTGGTGAGATCCTGTGGGGCTATGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ccadaacricadcaagarccaccideregacagaregaaregecrcaecaagara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTGGCATTCAGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCACTT
                                                                                                                                                                                                                                                                                                            125 CGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                       GTCTGTCTACTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTGCGGGAGCGTGGACCCTATGTCTACAGGGAATTCAGACATAAGGCCAACATCACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAATGACAACGACACCGTGTCCTTCGTGGAGAACCGGCAGCCTCCATTTCCAGCCTGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATGGGCCAGCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCCTATGACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          665 TGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGT
                                                                                                                                                                                                                                                                                                                                                                          CATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTCGCATGGCTCAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGGCTC
                                                                                                                                                                                   CTCCTTCAGGTCCTGAGGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTC
                                                                                                                                                      ö
                                                                                                                         Length 1788
                                                                                                                                                      0; Mismatches 192; Indels
                                                           amino acid sequence for the
                                                                                                                         9
                                                                                                                       B
                                                                                                                      Score 1369.8;
Pred. No. 0;
                                                                                                                       76.7%;
88.6%;
ORGANISM: Cricetulus griseus
FEATURE:
                           NAME/KEY: misc feature
i.CCATION: (1567..(1683)
OTHER INFORMATION: BRCOdes
i.OTHER INFORMATION: ass B-I
US-10-164-863-1
                                                                                                                      Query Match
Best Local Similarity 88.6'
Matches 1485; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    350 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    845
                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                          185
                                                                                                                                                                                                                                                                                                                                                                                                                                       245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        785
                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ℰ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1, Application US/10164863
| Publication No. US20030232879A1
| Publication No. US20030232879A1
| GENERAL INPORMATION:
| APPLICANT: Krieger, Monty
| APPLICANT: Miettinen, Helena
| TITLE OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INPERTILITY
| FILE REFERENCE: MIT 9094
| CURRENT FILING DATE: 1990-004
| CURRENT FILING DATE: 1990-00-01
| PRIOR FILING DATE: 1997-09-05
| NUMBER OF SEQ ID NOS: 15
| SOFTWARE: Patentin version 3.1
| SEQ ID NO 1
| TYPE: DNA
                                                                                                                                                      1189
                                                                                                                                                                                   1144
                                                                                                                                                                                                                  1249
                                                                                                                                                                                                                                                                               1309
                                                                                                                                                                                                                                                                                                                                           1369
                                                                                                                                                                                                                                                                                                                                                                          1324
                                                                                                                                                                                                                                                                                                                                                                                                         1429
                                                                                                                                                                                                                                                                                                                                                                                                                                       1384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1489
                             1069
                                                             1024
                                                                                                                         1084
                                                                                                                                                                                                                                                AAAGGAGCATTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC 1204
                                                                                                                                                                                                                                                                                                              1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCG 1444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTATGTGCTGCTGGGGCTGGCCGCCTCCTGCTGCTGCTGCCCGTCATCTACCAGTTGCG 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGA 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAAGGGCTCGCAGGATAAGGA 1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCA 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTC 1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTGAGCGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 1786
                                                                                                                                       TCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGTCTGAACCCTGACCC
                                                                                                                                                                                                                                                                  AAGGAGCATTCTTTCTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC
                                                                                                                                                                                                                                                                                                            TGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                              TGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGAA
                                                                                                                                                                                                                                                                                                                                                                                             GATCGAGCCCGTGGTCCTCCCATTGCTGTGGTTTGAGCAGAGCGGTGCCATGGGCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCCAGGTACTTCAGTATATGTGCA
 GACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGA
                             1010 CACCTACCATGATTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCACAGCCCCTAA
                                                                                          1070 AACTITIGITITGCCAATGGGTCTGTTTACCCACCCAATGAAGGTTTCTGCCCGTGCCTTGA
                                                                                                                                                                                     CCACTITITACAACGCCCACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC
                                                                                                                                                                                                                                                                                                                                                                        GATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCCCTGAGCACGTTCTACACGCAGCTGCTGATGCCCCAGGTTCTTCACTACGCGCA
                                                                                                                       GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCACCC
                                                           TACTOTOTOTOCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
US-10-164-863-1
                                                                                                                                                                                                                                                                                                                                                                                                         1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1565
                                                                                                                                                                                     1085
                                                                                                                                                                                                                                                  1145
                                                                                                                                                                                                                                                                               1250
                                                                                                                                                                                                                                                                                                            1205
                                                                                                                                                                                                                                                                                                                                           1310
                                                                                                                                                                                                                                                                                                                                                                          1265
                                                                                                                                                                                                                                                                                                                                                                                                                                       1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                          Š
                                                                                유
                                                                                                                      ઠે
                                                                                                                                            셤
                                                                                                                                                                                   ò
                                                                                                                                                                                                          g
                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
```

Search completed: February 23, 2006, 23:38:00 Job time : 1477.26 secs

THIS PAGE BLANK (USPTO)

```
273 TCGGCGTTATCRTGATTCTCATGGTGCCCTCGCTCATCAARCAGCAGCTGCTCAAGAATG 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCCGCATAGACCCCAGCAGCAGCTGTCCTTTGGGATGTGGAAGGAGATCCCTGTTCCTTCT 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACTIGECTGTCTACTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     213 GCTCCAGGGCACGCTGGGTGGCCTTGGGCCTTCTAGGGCTGCTGTGTGCTGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCATCAAGCAGCAGCAGGTCCTCAAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCGCATAGACCCGAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCGTCTCCTTCAGGTCCTGAGCCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Mounte, William M
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REPERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-05
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR PLING DATE: 2005-05-05
SOFTWARE PAGE 10 NOS: 362830
SOFTWARE PAGENTIN Version 3.2
LENGTH: 2497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 2943, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 1558; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-136-527-2943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 7039, Ap
Sequence 4716, Ap
Sequence 1803, Ap
Sequence 5899, Ap
Sequence 2632, Ap
Sequence 2632, Ap
Sequence 2634, Ap
Sequence 2634, Ap
Sequence 2554, Ap
Sequence 2950, Ap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2943, Ap
Sequence 1074, Ap
Sequence 1074, Ap
Sequence 3, Appli
Sequence 66, Appl
Sequence 90, Appl
Sequence 11, Appl
                                                                                                                           2006, 18:13:56 ; Search time 548.539 Seconds (without alignments) 6938.932 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                          1785
1 CCGTCTCCTTCAGGTCCTGA.....TCAGGGACCAGGGACAGACC 1785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /cgn2_c/ptodata/1/pubpna/DSO7_NEW_FOB. seq: *
/cgn2_c/ptodata/1/pubpna/DSO7_NEW_FOB. seq: *
/cgn2_c/ptodata/1/pubpna/USO9_NEW_FOB. seq: *
/cgn2_c/ptodata/1/pubpna/USO9_NEW_FOB. seq: *
/cgn2_c/ptodata/1/pubpna/USO9_NEW_FOB. seq: *
/cgn2_c/ptodata/1/pubpna/USO1_NEW_FOB. seq: *
/cgn2_c/ptodata/1/pubpna/USO0_NEW_FUB. seq: *
                                                                                                                                                                                                                                                                                                                                                                                                                            14418242
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /prodata/1/pubpna/USO8_NEW_PUB.seq:*
/prodata/1/pubpna/USO6_NEW_PUB.seq:*
/prodata/1/pubpna/USO7_NEW_PUB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-925-065A-515554
US-11-136-527-2950
US-11-128-061-1101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-136-527-7039
US-11-128-061-4716
US-11-128-049-4716
US-11-136-527-1803
US-11-136-527-5899
US-11-128-061-2632
US-11-128-061-2674
US-11-128-049-6274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-222-745-3
US-10-821-234-66
US-11-072-175-90
US-11-075-309A-11
US-11-222-745-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-11-136-527-2943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-11-128-061-1074
US-11-128-049-1074
                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                            7209121 seqs, 1066183437 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries
                                                                                      - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                          IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   length: 0
length: 2000000000
                                                                                                                                                                                                                      US-08-765-108-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /cgn2_6/1
/cgn2_6/1
/cgn2_6/p
/cgn2_6/p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                 February 23,
                                                                                                                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB seq
Maximum DB seq
                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1291
1142.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1141
1141
1048.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1369.1
                                                                                      OM nucleic
                                                                                                                                                                                                                                                                   Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                 Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Result
No.
```

ö

Gaps

ö

177;

82.1%; Score 1465.6; 88.6%; Pred. No. 0; iive 23; Mismatches

DB 12; Length 2497;

Sequence 1101, Ap Sequence 1747, Ap Sequence 675492, Sequence 593691, Sequence 593692, Sequence 840891.	Sequence 21, Appl Sequence 701020, Sequence 22, Appl Sequence 32, Appl Sequence 198, Appl Sequence 5, Appl	Sequence 58, Appl Sequence 1, Appli Sequence 6, Appli Sequence 66, Appli Sequence 4097, Ap Sequence 4097, Ap	455, 1033, 16, A 518, 331637
US-11-128-049-1101 US-10-909-125-1747 US-09-925-065A-675492 US-09-925-065A-593691 US-09-925-065A-840891 US-09-925-065A-840891	US-11-004-762-21 US-09-925-065A-701020 US-10-004-762-22 US-10-826-586-36 US-10-775-169-198 US-11-045-578-5	US-11-075-185-58 US-11-075-185-1 US-11-122-339-8 US-11-169-041-66 US-11-128-061-4097 US-11-128-04997 US-11-128-061-455	US-11.128-049-455 US-11-1000-688-1033 US-11-226-701-16 US-11-052-554A-518 US-09-925-065A-331637 US-09-925-065A-331639
9 9 9 9 9 9	12 2 2 6 12 6 12 6 12	222222	6 6 122
1910 2216 645 586 586	2024 2024 2024 2028 2028 40192 4646	6264 78869 2060 2060 1400 1400 3958	3958 2043 2048 6615 564
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.		44444444444444444444444444444444444444
6.85 6.83 6.73 6.83 6.64 6.64 6.64	, 44 , 11 ,4444 1111111111111111111111111111111	8 8 8 7 7 8 8 8 8 8 9 7 9 8 9 8 9 9 9 9	8 8 8 9 4 4
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 224 3330 33	0 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 4 4 4 4 4 0 11 5 6 4 4 6

## ALIGNMENTS

0y         1381         CGCAGTATGTGCTGCTGGAGGCTTCGTTGCTGCTGCTGCCCATCATCTGCCAAC         1440           bb         1533         CGCAGTATGTGCTGGGGGCTTTGGTGCTGCTGCTGCTGTTTTTGCAAC         1592           0y         1441         TGCGAGGAGGAAATGCTTTTTGGGGGGGTGGTGGTGATTATACCAAC         1500           1593         TGCGAGGAGGAAATGCTTTTTTTTTTTTGGGGTGGTGGTGAGGATA         1652           0y         1501         AGGAGGCCATCAGGGAAATGCTTTTTTTTTTTTTTTTTT	RESULT 2 US-11-128-061-1074  j Sequence 1074, Application US/11128061  j Publication No. US2006003958A1  j GENERAL INFORMATION:     APPLICANT: Charlebois, Timochy S.     APPLICANT: Charlebois, Timochy S.     APPLICANT: Charlebois, Timochy S.     APPLICANT: Branch Gener E.     APPLICANT: Brown, Budgene L.     APPLICANT: Miller, Christopher P.     TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS     TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS     TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES REPRESSION     FILE REFERENCE: 01997.027701     CURRENT APPLICATION NUMBER: US/11/128,061     CURRENT APPLICATION NUMBER: US 60/570,425     PRIOR FILING DATE: 2004-05-11     PRIOR FILING DATE: 2004-05-11	Query Match         76.7%;         Score 1369.8;         DB 12;         Length 1788;           Best Local Similarity         88.6%;         Pred. No. 0;         DB 12;         Indels 0;         Gaps 0;           Qy         5         CTCCTTCAGGTCCTGAGCCCCGAGCCGCGCGCGCGCGCGC
393 ACTTGTCCGTCTACTTCTGAGGTGGTCAACCCCAGGGGGTCTAAATGGCCAGAAGC 452 301 CAGTAGTCCGGGGGGCGTGGTCTACAGGGGGTTCAGGCGACACATCA 360 453 CAGTAGTCCGGGGGCGCGCCTATGTCTACAGGGGTTCAGACAAAAGGTTAACATCA 512 361 CAGTAGTCCGGGGGCGCGCCCTATGTCTACAGGGGTTCAGACAAAAGGTTAACATCA 512 362 CAGTAGTCCGGGGGCCCCTATGTCTACAGGGGACTTCAGACACAAAAGGTTAACATCA 512 363 CCTTCAATGACAACGACCGGTGTCCTTACAGGGAGACCCCATTTCCAGCCG 4 20 364 CCTTCAATGACAACGACACGGTGTCCTTACATGTACTGCTCAAAAGACCAGGCTAGGGGG 4 80 365 CCTTCAATGACAACACACGGTGTCCTTACATTGTACTGCTCAAACATTCCTGGGCG 4 80 366 CCTTCAATGACAACACACGGTGTCCTTACATTGTACTGCTCTAAACATTCCTGGGGG 6 32 481 GCTCGAATATGAAAGAAGCTAAATGTACTGCTCAAACATCCTGGGGG 6 32 482 GCTCGAATATGAAGGAGAAAACCTAAATGACCTTGGGCCTGG 6 92 483 GGCCGATATTGAAGGAGAAAACCCTGAAGCCTAAATGACCTTGGGGCTAG 6 92 484 GCTCCAATGGCCAGGGGTTTAATGAACCGCACAGTTGGTGAAATGACCTTGGGGCTATG 6 92 485 GGCCAGTGGTTTAATGAACCGCACAGTTGGTGAAATGACCTTGGGGGTTTG 6 92 486 GCCCATGGGCCAGGGGTTTAATGAACCGCACAGTTGGTGAGAATCCTTGGGGGTTTG 6 92 487 CACCATGGGCCAGGGGTTTAATGAACCGCCACAGTTGGTGAGAATCCTTGGGGGTTTG 6 92 488 GCCCATGGGCCAGGGGTTTAATGAACCGCCACAGTTGGTGAGAATCCTTGGGGGTTTG 6 92 489 GCCCATGGGCCAGGGGGTTTAATGAACCGCCACAGTTGGTGAGAATCCTTGGGGGTTTG 6 92 480 ACCATCCATGGGCCAGGGGTTTTAATGAACCACACGCCTTGGGGGTTTG 6 92 481 GCCCATGGGCCAGGGGGTTTTAATGAACCACACGCCACAGATTGGTGGGGGTTTGGGGGGTTTG 6 92 481 GCCCATGGGCCAGGGGGTTTAATGAACCACACGCCACAGATTGGTGGGGGTTTCCATTGGGGGCTATGGGGGTTTGGTGGGGGTTTGGTGGGGGTTTGGTGGGGGTTTGGTGGGG	12	1141 ACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTGGGATCCCCATGAACT 1200 1293 ACCCAARGGAGCATTCTTTGTTCCTWGACATCCACCGGTCMCTGGGATCCCCATGAACT 1352 1201 GTTCTGTGAAGATGCTGAGCCTCTACATCCACCCGGTCMCTGGGATCCCCATGAACT 1352 1201 GTTCTGTGAAGATGCTGAGCTTGTAATCCGTCAAGGGCATCGGGCAAACAG 1412 1353 GTTCCGTGAAGATGCTGTGGTTGTACAXCAAATCCGTCAAGGGCGTCGGGCAAACAG 1412 1261 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTTCGAACAGGCGGTCGGGCAACAGG 1412 1413 GGAAGATCGAGCCAGTAGTTCTGCCGTTGCTTCGAACAGAGCGGAGCATGGTGGTG 1472 1321 GCAAGCCCCTGAGCATTGCTGTGCTGTGGTTCGAACAGGGGGGTGATGGGTG 1472 1321 GCAAGCCCCTGAGCACTACTTCACACGCTGGTTCGATGCCCCAGGTTCTTCACTACG 1380 1473 GCAAGACCCTGAACACCGCTGCTGGTGGTGGTGATGCCCCAGGTTCTTCACTACG 1532

185 CATAGACCCGAGCCGGCTGTCCTTCGGGATGTGGAAGGACATCCCCGTCCCTTTCTACTT 244  290 CATAGACCCCAGCAGCCTGTCCTTTGCAATGTGGAAGGATCCCCTGTACCCTTTCTTT	Qy         1265 GATCGAGCCAGTAGTTCTGCCGTTGCTGCTTCGAACAGAGGGAGCAATGGGTGCAA           Db         1370 GATCGAGCCAGTAGTTCTCCCCATTGACTTCGAACAGGGGGACCATGGGCGGCA           Qy         1325 GCCCCTGAGCCGTGGTCTCTCCTGTTGATTGACCAGGGCGTGCATGGGCGGCGA           Db         1430 GCCCCTGAACACGTTCTACACGCTGGTGCTGATGCCCAGGTTCTTCACTACGCGCA           Qy         1385 GTATGTGTGTGTGGTGGCTGATGCCTGATGCCCAGGTACTTCAGTATGTGCA           Qy         1385 GTATGTGCTGCTGGTGGCTGGTGCTGATGCCCAGGTACTTCAGTATGTGCA           Qy         1490 GTATGTGCTGCTGGGGGCTTCGTGGTGCTGATGCCCAGGTACTTCAGTTGCG           Db         1495 GACCAAGGAGAAATGCTTTTTTGGAGTGCTGCTGGTGCCCAGCTACTACCCAGTTAGGG           Cy         1550 GACCAAGGAGAAATGCTTTTTTGAGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGC
	RESULT 3 US-11-128-049-1074 i Sequence 1074, Application US/11128049 i Sequence 1074, Application US/11128049 i Sequence 1074, Application US/11128049 i Sequence 1074, Application US. US2006010513A1 i GENERAL INFORMATION: i APPLICANT: McIville, Mark W. APPLICANT: Mounts, William M. APPLICANT: Stracce, Martin S. APPLICANT: Encource, Martin S. APPLICANT: Canard, Artin S. APPLICANT: Canard, Martin S. APPLICANT: Canard, Martin S. APPLICANT: Canard, Martin S. APPLICANT: Canard, Martin S. APPLICANT: Miller. Canisher W. ITILE OF INVENTION: MAKING AND USING SAME ITILE OF INVENTION: MAKING AND USING SAME ITILE OF INVENTION NUMBER: US/11/128,049 i CURRENT FILING DATE: 2005-05-11 i NUMBER OF SEQ ID NOS: 7285 i SEQ ID NO 1074 i LENGTH: 1788 i TYPE: DNA CREANISM: Cricetulus griseus US-11-128-049-1074
1025 GTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCCCCCCC 1084  1130 ATCCGGCATTCAAAATGTCAGCACTTGCAGGTTTGGTGCCCCTGTTTCTGTCACACC 1189  1085 CCACTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCC 1189  1190 TCACTTCTACAATGCAGACCCTGTGTTGTCAGAAGCCGTTCTTGGTCTGAACCCTAACCC 1249  1145 AAAGGAGCATTCCTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTC 1204  1250 AAGGGAGCATTCTTTGTTCCTTGACATCCATCGGGCATCGGGGAACTGTTC 1309  1205 TGTGAAGATGCAGCCTGAACTCAAATCTGTCAAAGGGCATCGGGCAAACAGGGAA 1264  1310 TGTGAAGTTGCATGCATCAATCAAATCTGTCAAAGGGCATTGGGCAAACAGGGAA 1369	Query Match         76.7%;         Score 1369.8;         DB 12;         Length 1788;           Best Local Similarity         88.6%;         Pred. No. 0;         9         9         6

	GGTTAACATCACCTTCAATGACAAGGTGTCCTACATAGAGAACCGAAGCCTTCA TTTCCAGCCTGACAAGAGTGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCTT	Oy 1490 CTCCCAGGATAAGGAGGCCATTCAGGCCTACT 	CTCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAA 1549 
m .	TTTCCAGCCAGACAGGTCCCCAGGGCTCAGAGAGTGACTACATTGTACTGCCTAACATCCT		
	470 GGICCIGGGGGGCTCGAIAITGAIGGAGGAGCAGCTGGAGCCTGAAGCTGAIGAIGAC 529 		 
	530 CTTGGGGCTGGTCACCATGGGCCAGCGTGCTTTATGAACCGCACAGTTGGTGAGATCCT 589	RESULT 5 US-10-821-234-66/c ; Sequence 66, Application US/10821234	
	590 GTGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACGTACCTCCCCAGACATGCTTCC 649	0	
	650 CATAAAGGGAAATTTGGCCTGTTTGTTGGGATGAACAACTCGAATTCTGGGGTCTTCAC 709 	; APPLICANT: Andarmanı, Susan ; APPLICANT: Tang, Y. Tom ; TITLE OF INVENTION: Methods for Diagnosis ; FILE REFERENCE: 821A	and Treatment of Preeclampsia
	710 TGTCTTCACGGGGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACT 769	CURRENT APPLICATION NUMBER: US/10/821,234; CURRENT FILING DATE: 2004-04-07; PRIOR APPLICATION NUMBER: US 60/462,047; PRIOR FILING DATE: 2003-04-07	
	770 CAGCAAGATGGATTATTGGCATTCAGAGCAGTGAACATGATCAATGGGACTTCCGGGCA 829 	; NUMBER OF SEQ ID NOS: 1704 ; SOFTWARE: Pt_SEQ_genes Version 1.0 ; SEQ ID NO 66— ; LENGTH: 2569	
	830 GAIGIGGGCACCCITCAIGACACCCGGAAICCICGCIGGAATICTICAGCCCGGAGGCAIG 889 	; TYPE: DNA ; ORGANISM: Homo sapiens US-10-821-234-66	
	890 CAGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCG 949	Query Match 64.0%; Score 1142.6; Best Local Similarity 79.7%; Pred. No. 0; Matches 1349; Conservative 0; Mismatches	6; DB 8; Length 2569; 0; thes 344; Indels 0; Gaps 0;
	950 CTTCACGGCCCCGATACTCTGTTTGCCAACGGTCCGTCTACCCACCAACGATT 1009 	14	
. ,		Qy 74 CTGGGTGGCCTTGGGGTTGGCCCCTGGG 	CTGGGTGGCCTTGGGGTTGGGCCCTGGGGGTTGCTGCTGC
	GITICTCTCCCACCCCCACTITIACAACGCGACCCTGTGTTGTCAGAAGCTGTTCTTGG	OY 134 GATCCTCATGGTGCCCTCATCAAGCAGGTGCTCAAGAATGTCCGCATAGACC  DD 2417 GATCGTGATGGTGCCGTCGCTCATCAAGCAGGTCCTTAAGAACGTGCGCATCACC	GATCCTCATGGTGCCCTCCCTCATCAAGCAGCAGCTCAAGAATGTCCGCATAGACCC 193 
		Oy 194 GAGCAGCCTGTCCTTCGGGATGTGGAAGGA(D)	GAGCAGCCTGTCCTTCGGGATGTGGAAGAGATCCCCGTCCCTTTCTACTTGTCTGTC
		Oy 254 CTTCTTCGAAGTGGTCAACCCAAACGAGT 	cticticgaagiggicaaccaaaggiccicaaggcaaaaggcagtagicggga 313 
	9506 	Qy 314 GCGTGGACCCTATGTCTACAGGAGTTCAG 	GCGTGGACCCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAA 373 
	AGCAATGGGTAGGCAGCCCTGAGCAGCTTCTACAGGCAGCTGGTGCTGATGCCCAGGT	Oy 374 CGACACCGTGTCCTTCGTGGAGAACCGCGGG  1	CGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGG 433
7	1370   TCTTCACTACGCGCAGTATGTGCTGCTGGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCAT   1429	Oy 434 CTCAGAGAGTGACTACATTGTACTGCCTAA(D)	CTCAGAGAGTGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGAT 493 
ਜ ਜ	1430 CATCTGCCAACTGCGCAGCCAGGAAATGCTTTTTGTTTTTGGAGTGGTAGAAAAGGG 1489 	QY 494 GGAGAGCAGGGCCTGAAGCCTGATGATCATGGCCTTGGCGCTGGTCACGGGCCATGGGCCATGGGCCATGGGCCATGGGCCATGGCCTTGGCGTTGGCATTCACCTCGGCGGAATAAGCCCATGACCCTGAAGCTCATCATGACCTTGGCATTCACCTCGGCGG	ggagagcaagcctgtgagcctgaagctgatgaccttggcgctggtcaccatgggcca 553 

```
Sequence 90, Application US/11072175
Sequence 90, Application US/11072175
Publication No. US20060029944A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
FILE REPERENCE: DO273A CIP
FILE REPERENCE: D0273A CIP
CURRENT APPLICATION NUMBER: US/11/072,175
CURRENT APPLICATION NUMBER: US 60/406,385
PRIOR PILING DATE: 2002-08-27
PRIOR PILING DATE: 2003-08-26
NUMBER OF SEQ ID NOS: 571
SOFTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           554 GCGTGCTTTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGGCTATGACGATCCCTTCGT 613
917 CCCCAGCCCCTACACCCCGCTTCTCCCCGGACTCTCCCCAGCGGACAGCCCCCCAGCCCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GATCCTCATGGTGCCCTCCTCATCAAGCAGCAGGTGCTCAAGAATGTCCGCATAGACCC 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      393 GGACACGTGTCCTTCGAGTACCGCACCTTCCAGCCCTCCAAGTCCCACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      213 CAGTAGCCTGTCCTTCAACATGTGGAAGAGAGAGTCCCCTATCCCTTCTATCTCCGTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         273 cricirrakacercarakaccacaecakaricerakadeceakakaceacaerecekak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        333 GCGCGGCCCTACGTGTACAGGGAGTCCAGGCACAAAAGCAACATCACCTTCAACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGAGAGCAAGCCTGTGAGCCTGAAGCTGATGACCTTGGCGCTGGTCACCATGGGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGAGAATAAGCCCATGACCCTGAAGCTCATCATGACCTTGGCATTCACCACCCTCGGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGGGTGGCCTTGGGGCGCCCTGGGGCTGCTGTTGCTGCGCCTCGCCGTTGTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCGTGGACCCTATGTCTACAGGAGTTCAGACAAAAGGTCAACATCACCTTCAATGACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14 GTCCTGAGCCCCGAGAGCCCCTTCCGCGCACGCGGACATGGGCGGCAGCTCCAGGGCGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       33 decerdecadececedesasececedas de as decentados es de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           194 GAGCAGCCTGTCCTTCGGGATGTGGAAGGAGATCCCCGTCCCTTTCTACTTGTCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTCTTCGAAGTGGTCAACCCAAACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCAGAGAGAGACTACATTGTACTGCCTAACATCTTGGTCCTGGGGGGCTCGATATTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 1141; DB 9;
Pred. No. 0;
0; Mismatches 345;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63.9%;
79.6%;
                                                                                                 1694 GGCCTGAGCCCCC 1706
                                                                                                                                                                   857 AGCCTGAGCCTCC 845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 79.6
Matches 1348; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                               US-11-072-175-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-072-175-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     장염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                        셤
                                                                                                    ò
                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1573
                                                                      1938
                                                                                                                                                                                                     1878
                                                                                                                                                                                                                                                                                                             .877 TGCTGAGCTCCAACTCCGACTCTGGGCTCTTCACGGTGTTCACGGGGGTCCAGAACAT 1818
                                                                                                                                                                                                                                                                                                                                                                                                                                  1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1637 GGAGTCAGGGGTGTTTGAAGGCATCCCCACCTATCGCTTCGTGGCTCCCAAAACCCTGTT 1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCCAACGGGTCCGTCTACCCACCCAACGAAGGCTTCTGCCCATGCCGAGAGTCTGGCAT 1033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAGAACGTCAGCACCTGCAGGTTCAGTGCCCCCTTGTTTCTCTCCCATCCTCACTTCCT 1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAACGCCGACCCGGTTCTGGCAGAAGCGGTGACTGGCCTGCACCCTAACCAGGAGGCACA 1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAGCTGAGCCTCTACATCAAATCTGTCAAGGCATCGGGCAAACAGGGAAGATCGAGCC 1273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAAATGCTATTTATTTTGGAGTAGTAGTAAAAAGGGCTCAAAGGATAAGGAGGCCATTCA 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1634 ACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCCCCACCAGTGCCAT 1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCCAACGGGTCCATCTACCCACCCAACGAAGGCTTCTGCCCGTGCCTGGAGTCTGGAAT 1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCCACCCCCCACTTTTA 1093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCA 1153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1274 AGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCAAGCCCCTGAG 1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       973
                                                                                                                                         673
                                                                                                                                                                                                                                                                    733
                                                                                                                                                                                                                                                                                                                                                                                                793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTCCTTGTTCCTGGACATCCCCGGTCACGGAATCCCCCATGAACTGCTCTGTGAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTGGTCCTGCCGCTGCTCTGGTTTGCAGAGCGGGGCCATGGAGGGGAGACTCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            794 AGAGCAGTGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCCACCTTCATGACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CGAATCCTCGCTGGAATTCTTCAGCCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTCCTTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCAGCTGAGCCTCTACATGAAATCTGTCGCAGGCATTGGAACAAACTGGGAAGATTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CACATTCTACACTCAGCTGGTGGTTGATGCCCAAGGTGATGCATTGCCCAGTACGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGCGCAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAAATGCTTTTTGTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGAGGCCATTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGCAAGAAGCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTCAGACCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               977 Actienagegrecteageacacesteagecagecagecregecegeregecereagece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATGTGCT
                                                                                                                                                                                                     GAATCTCATCAGAGAGTACTTTCCAGGCATGTTCCCCTTCAAGGACAAGTTCGGATTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCCGATACTCTGTT
                                                                      .997 Accidentral da Accidenta de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de Control de 
                                                                                                                                                                                                                                                                    TGTTGGGATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTT
                                                                                                                                                                                                                                                                                                                                                                                                CAGCAGGATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTC
                                                                                                                                         GCATTTTCTCAACACGTACCTCCCAGACATGCTTCCCATAAAGGGCAAATTTGGCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1217
                                                                                                                                                                                                     1937
                                                                                                                                                                                                                                                                                                                                                                                                734
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1037
                                                                                                                                         614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      974
                                                        ద
                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ક
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              名 &
                                                                                                                                  8
```

Db	9A-11 1, Applicati n No. US2005 FORMATION:	# APPLICANT: Schwärtz, Daniel # APPLICANT: Duncan, Keith # APPLICANT: Bailey, Kathy # APPLICANT: Rane, John # APPLICANT: Ishids, Brian # TITLE OF INVENTION: Treatment for Dark Adaptation	REFERENCE: HO- NT APPLICATION NT FILING DATE APPLICATION N	FILING DATE: APPLICATION N FILING DATE: APPLICATION N	ING DATE: 2001-12- LICATION NUMBER: U ING DATE: 2002-10- SEQ ID NOS: 17		63.9%; Score 1141	Similarity 18; Conservat g GTCCTGAGCCCC	Db 33 GCCTGCGAGCCGCGGGTGGGCCCCAGGCGCAACATGGGCTGCTCCGCCAAAGCGCG 92 Ov 74 CTGGGAGGCCTTGGGGTTGGGCCCTGGGGCTGCTGTGTGCGCTTGGCGTTGTCAT 133	93 CTGGGCTGCCGGGCGTCGCGGGCCTCTCGCGCCTGTGCTGTGCTGGGCGCTGTCTCTCTCTCTTCT	153	Db 213 CAGTAGCCTGTCCATCAACATGTGGAAGGAGATCCCCTATCCCCTTCTGCTCTA 272 Ov 254 CTTCTTGAAGTGGTCAACCCAAACGAGGACTCCAGAAGGCAGAAGCCAGAAGCCAGAAGCAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAAGCAGAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACGAAAACAAAACAAAAACAAAAACAAAAACAAAAAA	273 CTTCTTTGACGTCATGAACCCCAGCGAGAATCCTGAAGGGCGAGAAGCCGCAGGAGGA	314 GCGTGGACCTATGTCTACAGGGAGTTCACACAAAGGTCAACATCACCTTCAATGACAA	DD 333 GCGCGGGCCTACGTGTACAGGGGGCCCAGGCACAAAAGCAACATTCCAGCACATTCAACAACAA 392  Oy 374 CGACACCGTGTCCTTCGTGGAGAACCGCAGCCTCATTTCCAGCCTGACAAGTCGCATGG 433	Db 393 GGACACGTGTCCTCGTGGTACCGCACCTTCCAGTCCAGT	453 CTCGGAGAGGGACTACATGCCCAACATCCTGGTCTTGGGTGCGGCGGTGATGAT
	Oy 674 TGTTGGGATGAACTCGAATTCTGGGGTCTTCACGGGCGTCCAGAATTT 733	Db   753 CAGCAGATICCACCTCGGACAAGGGGGGGGGGGGGGGGGG	OY 854 CGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAA 913	Qy 914 CGAATCAAGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCGATACTTGTT 973	OY 974 TGCCAACGGCTCCGTCTACCACCAACGAAGGCTTCTGCCCATGCCGAGAGGTCTGGCAT 1033	Qy         1034         TCAGAATGTCAGCACCTGCAGTTTGGTGCGCCTCTGTTTTCTCTCCCCCCCACTTTTA         1093           Db         1053         TCAGAACGTCAGCACCTGCAGGTTCAGTGCCCCCTTGTTTCTCTCCCCATCCTCCACTTCCT         1112	Oy         1094 CAACGCCGACCCTGTGTCGGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCA 1153           Db	OY 1154 TICCTIGITCCTAGACATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGT 1213	Qy       1214       GCAGCTGAGCCTCTACATCAATCTGTCAAGGGCATCGGGAAACAGGGAAACAGGGAAACAGGGAAACTCAAGAAACTGCAAGCAA	1274 AGTAGTTCTGCCGTTGCTGTGGATTCGAACAGACGGAGCAATGGGTGGCAAGCCCTGAG	Oy 1334 CACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGCAGTATGTGCT 1393	Oy         1394 GCTGGGGCTTGGAGGCCTCTGTTGCTGGTGCCCAACTGCCAAGCCAGGA 1453           Db         1413 CCTGGCGTGGCTGCTGCTGCTGTCTCTCTCTCATCTGCAAATCCGAAGCAAAA 1472	1454 GADATGCTTTTTGTTTTTGGAGTGGTAGTAAAAAGGGCTCCCAGGATAAGGAGCCCTTCA	INTERPRETATION TO THE THIRD TO THE TRANSPORT TO THE THIRD THE THIR	Db 1533 GGCCTATTCTGAATCCCTGATGACACCAGGGGCTCTGTGCAGGAGCCAA 1573	Qy       1574 GCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGTCAGACCAGCC 1633         Db	1634 ACCCAGTCCCTACACCCGCTTCTTGAGGACTCTCTCAGCGGACAGCCCACCAGTGCCAT

늉

```
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTCTCTCCCATCCTCACTTCCTCAACGCCGACCCGGTTCTGGCAGAAGCGGTGACTGGC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATC 1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCCATGAACTGCTCTGTGAAACTGCAGCTGAGCCTCTACATGAAATCTGTCGCAGGCAT 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGA 1310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAG 1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 960
     9
                                                                                                     99
                                                                                                                                                 770
                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                 830
                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                  890
                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                   950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         crecaccinalizacine de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica del constantica del constantica de la constantica del constantica del constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica del constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica del constantica del constantica de la constantica del constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica de la constantica del constantica del constantica del constantica de la constantica del constantica de la constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del constantica del co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGACAAACTGGGAAGATTGAGCCTGTGGTCCTGCCGCTGCTCTGGTTTGCAGAGCGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGCACTATGCCCAGTACGTCCTCCTGGCGCTGGGCTGCGTCCTGCTGGTGGTCCCTGTC
  TGGGGCTACAAGGACCCCCTTGTGAATCTCAACAAGTACTTTCCAGGCATGTTCCCC
                                                                            TTCAAGGACAAGTTCGGATTATTTGCTGAGCTCAACAACTCCGACTCTGGGCTCTTCACG
                                                                                                                                              GTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACAAATGGAACGGACTC
                                                                                                                                                                             AGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGAATCAATGGGACTTCCGGGCAG
                                                                                                                                                                                                                                                                             841 CGATCCATGAAGCTAATGTACAAGGAGTCAGGGGTGTTTGAAGGCATCCCCACCTATCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rrcerescreceaaaccererrreceaacegrecareraceaceaceaacearer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCAGGTTTGGTGCGCCTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rececereceredactricanitranancerenecerecerecentraneneceering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTCACTACGCGCAGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCAAAGGATAAGGAGGCCATTCAGGCCTATTCTGAATCCCTGATGACATCAGCTCCCAAG
                                                  ATAAAGGGCAAATTTGGCCTGTTTGTTGGGATGAACACACTCGAATTCTGGGGTCTTCACT
                                                                                                                                                                                                                                                                                                                                                  ATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCAGCCCGGAGGCATGC
                                                                                                                                                                                                                                                                                                                                                                                                AGGICCATGAAGCIGACCIACAACGAAICAAGGGIGITIGAAGGCATICCCACGIAICGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCACGGTGCTGCAAGAAGCCAAGCTATAG 1580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           eccrererecrecaegaaccaaaacrerae 1530
                                                  651
                                                                                                                                                 711
                                                                                                                                                                                                 199
                                                                                                                                                                                                                                                 771
                                                                                                                                                                                                                                                                                               721
                                                                                                                                                                                                                                                                                                                                                  831
                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1551
                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               196
셤
                                                δ
                                                                                              셤
                                                                                                                                              ò
                                                                                                                                                                                            g
                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                음
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            윰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          쇰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ሯ
```

US-11-136-527-7039
; Sequence 7039, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

RESULT 9

APPLICANT: Wyeth

```
1125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1545
                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            721 CTCTCAGCGGACAACCCGCCAGTGCCASGTCCTGAGCCCCCAGATGTCACACCTGTCCMCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 gerrerecegaecegaerecegearreagaarereageaecreeaegarregeege
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121 CCCTGTTTCTCCCCCAGCCCCACTTCTACAATGCTGACCCCGTGCTGCTGAGAAGCTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGGTCTGAACCCGGACGCAARGGAGCATTCYTTGTTCCTWGACATCCACCGGTCMCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGATCCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCATCATCTGCCCACTGCGCCAGCCAGGAGAATGCTTTTGTTTTGGAGTGGTAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601 CCAAGGGCACGGTASTGCAAGAAGCCAAGCTGTAGGGCCCAGAAGACACCACGAGCCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTCTCAGCGGACAGCCCACCAGTGCCATGGCCTGAGCCCCCAGATGTCACACCTGTCCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGGTCTGAACCCTAACCCAAAGGAGCATTCCTTGTTCCTAGACATCCGGTCACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCGGAGCAATGGGTGGCAAGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGGITCITCACTACGCGCAGTATGTGCTGCTGCGGGCTTGGAGGCCTCCTGTTGCTGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 ARGTTCTTCACTACGCGCAGTATGTGCTGCTGGGGCCTTGGAGGCCTCCTGCTKCTGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGGCTCCCAGGATAAGGAGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541 AGGGCTCGCAGGATAAGGAGGCCATGCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAAACCTGATAGCTTGGTCAGACCAGCCAGTCCCTACACCCCGGCTTCTTGAGGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        661 CAAACCTGATAGCTTGGTCAGACCGGCCCCAGTCCCTACACCCCRCTTCTYGAGGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 Arcdcrrcacecccccaracrrrerrreccaaceccccrraccaccaccrraccaccracaae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1006 GCTTCTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGGCACCTGCAGGTTTGGTGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTCTGTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGATCCCCATGAACTGTTCCGTGAAGATGCAGCTGAGTCTGTACAKCAAATCCGTCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1246 GCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301 GCGTCGGGCAAACAGGGAAAGATCGAGCCAGTAGTCCTGCCATTGCTGTGGTTCGAACAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 GCGGGATGATGGTGGCAAGACCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481 CCATCATTACCAACTGCGCAGCCAGGAAAATGCTTTTTATTTTTGGAGTGGTAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                 Length 1400;
                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                            ; Score 694.6; DB 12;
; Pred. No. 6.4e-188;
12; Mismatches 71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             946 ATCGCTTCACGGCCCCCGATACTCTGTTTGCCAACGGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1726 ACGCACGCACATGGATGCCCACGCATGTGCAA 1758
APPLICANT: Mounts, William M
TITLE OF INVENTION: Probe Arrays For Express
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT PPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR PILING DATE: 2005-05-26
NUMBER OF SEQ ID NOS: 362830
SOFTWARE: Patentin version 3.2
SEQ ID NO 7039
                                                                                                                                                                                                                                                                                                                                                                            38.9%;
89.8%;
                                                                                                                                                                                                                                                                                            , ORGANISM: Rattus norvegicus
US-11-136-527-7039
                                                                                                                                                                                                                                                                                                                                                                                                                             730; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                        LENGTH: 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                      Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
```

셤

```
APPLICANT: Mounts, William M.
APPLICANT: Sincore, Martin S.
APPLICANT: Sincore, Martin S.
APPLICANT: Brown, Eugene L.
APPLICANT: Hann, Louane E.
APPLICANT: Brown, Eugene L.
APPLICANT: Miler, Christopher P.
TITLE OF INVENTION: OLIGONUCLECTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR TITLE OF INVENTION: MAKING AND USING SAME
FILE REFERENCE: 201997000
CURRENT APPLICATION NUMBER: US 60/570,425
FRIOR FILING DATE: 2004-05-11
PRIOR FILING DATE: 2004-06-11
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: Patentin version 3.3
SEQ ID NO 4716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1324 AGCCCCTGAGCACGTICTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGC 1383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 AAGAAGCCAAGCTGTAGGGTCCCAAAGACACACGAGCCCCCCCAACCTGATAGCTTGGT 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361 GCAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGCTCGCAGGATAAGG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421 AGGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGC 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 CAAGGGAGCATTCTTTGTTCCTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGACCAGCCACCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1681
541 CAGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1264 AGATCGAGCCAGTAGTTCTGCCGTTGCTGGTTCGAACAGAGCGGAGCAATGGGTGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 AGTATGTGCTGGGGCTGGGCGCCTCCTGCTGCTGGTGCCCGTCATCTACCAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1444 GCAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAAAAAGGGCTCCCAGGATAAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1564 AAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAAGCCCCCCAAACCTGATAGCTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 AGCCCCTGAACACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTACTTCAGTATATGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1384 AGTATGTGCTGCTGGGGCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 crcacrrcracaarecaeaccererecrarcaeaaecerreregaecereaece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1144 CAAAGGAGCATTCCTTGTTCCTAGACATCCGATCCGGTCACTGGGATCCCCGTGAACTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 CTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGGCATTGGGCAAACAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 513.2; DB 12;
Pred. No. 2.8e-136;
0; Mismatches 53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1084 CCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTG
                                                                                                                                Sequence 4716, Application US/11128049
Publication No. US20060010513A1
GENERAL INFORMATION:
                                                                                                                                                                                                              APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy
APPLICANT: Mounts, William M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 28.8%;
Best Local Similarity 91.1%;
Matches 545; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Cricetulus griseus
                                                                              RESULT 11
US-11-128-049-4716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-128-049-4716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                   APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Binacore, Martin S.
APPLICANT: Binacore, Martin S.
APPLICANT: Beonard, Mark W.
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLECTIDES RELATED TO OLIGONUCLECTIDE ARRAYS
TITLE OF INVENTION: NOVEL POLYNUCLECTION OLIGONUCLECTIDE ARRAYS
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
FILE REFERENCE: 01997.027701
CURRENT PILING DAPTE: 2005-05-11
FRIOR APPLICATION NUMBER: US 60/570,425
PRIOR FILING DATE: 2004-05-11
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: Patentin version 3.3
SEQ ID NO 4716
LENGTH: 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1384 AGTATGTGCTGCGGCCTTGGAGGCCTCCTGTTGCTGGTGCCCATCATCTGCCAACTGC 1443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGCCAGGAGAAATGCTTTTTGTTTTTGGAGTGGTAAAAAAGGGCTCCCAGGATAAGG 1503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGATCGAGCCAGTAGTTCTGCCGTTGCTGTGGTTCGAACAGAGCGGAGCAATGGGTGGCA 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1324 AGCCCCTGAGCACGTTCTACACGCAGCTGGTGCTGATGCCCCAGGTTCTTCACTACGCGC 1383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAGAAGCCAAGCTATAGGGTCCTGAAGACACTATAAGCCCCCCAAACCTGATAGCTTGGT 1623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGTGAAGTTGCAGATAAGCCTCTACATCAAAGCTGTCAAGGGCATTGGGCAAACAGGGA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421 AGGCCATTCAGGCCTACTCTGAGTCTCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGC 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAAGGGAGCATTCTTTGTTCCTTTGACATCCATCCGGTCACTGGGATCCCCATGAACTGTT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361 GCAGCCAGGAGAAATGCTTTTTATTTTGGAGTGGTAGTAAAAAGGGGCTCGCAGGATAAGG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGACCAGCCCAGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGCC 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGTGAAGATGCAGCTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCCCCTGAACCACGTTCTACACGCAGCTGGTGCTGTGTCTCTCAGTACTTCAGTATGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301 AGTATGTGCTGGGGCTGGGCGGCCTCCTGCTGCTGGTGCCCGTCACCAGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGCCATTCAGGCCTACTCTGAGTCCCTGATGTCACCAGCTGCCAAGGGCACGGTGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTCACTTCTACAATGCAGACCCTGTGCTATCAGAAGCCGTTCTGGGGTCTGAACCCTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1144 CAAAGGAGCATTCCTTGTTCCTAGACATCCGATCCGGTCACTGGGATCCCCATGAACTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1084 CCCACTTTTACAACGCCGACCCTGTGTTGTCAGAAGCTGTTCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 513.2; DB 12;
Pred. No. 2.8e-136;
0; Mismatches 53;
781 CGCCACATAGTGTGCGGAAACACTCAKGGACCA 813
                                                                                                                                Sequence 4716, Application US/11128061
Publication No. US20060003958A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 28.8%;
Best Local Similarity 91.1%;
Matches 545; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , ORGANISM: Cricetulus griseus
US-11-128-061-4716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1624
```

원 ઠે 요 δ 요 ò 요 ò 셤 ઠે a 8 셤 ઠે g ઠે

ö

1323

```
1162 GCTTCTGTATACCCGAGGAAACTGCATGGACGCGGGAGTGCTGAACGTCAGCATTTGCA 1221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1054 GGTTTGGTGCGCCTCTGTTTCTCTCCCACCCCCACTTTTACAACGCCGACCCTGTGTTTTTT 1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1222 AGAATGGTGCGCCCATTATCATGTCTTTCCCACACTTTTACCAAGCCGACGAGAAGTTCG 1281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1282 TTTCGGCCATAAAAGGCATGCGTCCAAACAAGGAAGAACATGAGTCATTTGTGGACATTA 1341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1342 Arccrrrgacaggaarrarrrraagaggsccaagagarrccaaarcaacacgracgrra 1401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1402 AGAAGCTGGATGACTTTGTGGAAACGGGAAACATTAGGMCTATGKTTTTCCCAGTGATGT 1461
                                                                                                                                                                  982. GGACAGACGGAGATTCTTTTCACCCATTAATAAGCAAGGATGAGACCCTGTACATCTTCC 1041
                                                                                                                                                                                                                                                                                                     1042 CATCTGACTTCTGCAGGTCCGTCTATATAACTTTCAGTAGCTTTGAGAACGTAGAAGGAC 1101
                                                                                                                                                                                                                                                                                                                                                                                                                                    1102 recorectrificastaraacerecorecagaaracraceaarrecoreceaaaaceore 1161
922 AGTGGAATGGAAAAACGTCGCTGGACTGGTGGACGACGACACGTGCAATATGATCAACG 981
                                                                                                                                                                                                                                   877 GCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAACGAATCAAGGGTGTTTGAAGGCA 936
                                                                                                                                                                                                                                                                                                                                                                      TTCCCACGTATCGCTTCACGCCCCCCGATACTCTGTTTGCCAACGGGTCCGTCTACCCAC
                                                                                                       817 GGACTTCCGGGCAGATGTGGGCACCCTTCATGACACCCGAATCCTCGCTGGAATTCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCAAC---GAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTCAGAATGTCAGCACCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1114 CAGAAGCTGTTCTTGGTCTGAACCCTAACCCAAAGGAGCATTCCTTGTTCCTAGACATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGATGCAGCTGAGCTCTACATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1234 AATCTGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTAGTTCTGCCGTTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ---TAACTTTGGCCTGTTCTATGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTTATGAACCGCACAGTTGGTGAGATCCTGTGGGGCTATGACGATCCCTTCGTGCATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITGICACTCACACTGTACATGAACTGCTCTGGGGCTTACAAAGATGAGGTCTTGTCGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Mounts, William M
TITLE OF INVENTION: Focbe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR PILING DATE: 2005-05-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. 6.3e-26;
2; Mismatches 362;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 127;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             119 Grccararrrcagaccrgacgrcrccc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 5899, Application US/11136527
Publication No. US20050287570A1
GENERAL INFERMATION:
APPLICANT: Wyeth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1294 GGTTCGAACAGAGCG 1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1462 ATCTCAATGAGAGTG 1476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 362830 SOFTWARE: Patentin version 3.2 SEQ ID NO 5899 LENGHT 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7.18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Rattus norvegicus
US-11-136-527-5899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 49.9
Matches 375; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
US-11-136-527-5899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                  셤
                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઢ
                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCTGGGGCTGCTGTTTGCTGCGCTCGGCGTTGTCATGATCCTCATGGTGCCCTCCTCA 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGAAGGAGATCCCCGTCCCTTTCTACTTGTCTGTCTACTTCTTCGAAGTGGTCAACCCCAA 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACGAGGTCCTCAACGGCCAGAAGCCAGTAGTCCGGGAGCGTGGACCCTATGTCTACAGGG 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGTTCAGACAAAAGGTCAACATCACCTTCAATGACAACGACACCGTGTCCTTCGTGGAGA 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCTCAGGAACAAGGCAAACGTTCAGTTTGGAGAAAATGGAACAACCATATCTGCCGTCA 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCGCAGCCTCCATTTCCAGCCTGACAAGTCGCATGGCTCAGAGAGTGACTACATTGTAC 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     571 CCAATAAGGCATATATTTTGAACGAAACCAGTCTGTTGGAGACCCTACCGTTGACTTGA 630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        631 TTAGAACAATAAATATTCCTCTGTTGACTGTTGTGGAAATGGCCCAGCAGCCCTTCCTCA 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        racardaacrdcrcrddddraaaaargaagarcrrrigrcgcrcgrcararrrrcagac 810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGACGTCTCCCC----TAACTTTGGCCTGTTCTATGAGAAATGGAACTAATG 861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCAGCAGGATCCATCTGGTGGACA 756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            757 AATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAGAGCAGTGTAACATGATCAATG 816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            391 GCCAGAAGCCCCCTCTACCTGTACATCCAGTTTTATTTCTTCAATGTCACCAATCCAG 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGGGGAGTATGTTTTTCTGACTGGAGAGACAATTACCTGAACTTTACAAAAATTGTGG 921
CAGACCAGCCATCCAGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTC 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGGAGATÓCTCCAAGGAGAAATCCCCCTGCTAGAAGAAGTGGGGCCGTACACCTACAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         creriderideridarda caratrica e crideria di reconstructo de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAAGCAGCAGCTCCTCAAGAATGTCCGCATAGACCCGAGCAGCCTGTCCTTCGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         regaccadacearceacadadaararegrarracaaaaregraccaagercrirgarrecr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGCTGATGATGACCTTGGCGCTGGTCACCATGGGCCAGCGTGCTTTTATGAACCGCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGGTGAGATCCTGTGGGGCTATGACGATCCCTTCGTGCATTTTCTCAACACGTACCTCC
                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gabs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 12; Length 2076;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 163.8; DB 12;
Pred. No. 2.3e-36;
2; Mismatches 629;
                                                                                                                                                              Sequence 1803, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 362830
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9.2%;
                                                                                                                                                                                                                                                                                                 Mounts, William M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Rattus norvegicus
US-11-136-527-1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 47.1:
Matches 572; Conservative
                                                                                                                                                                                                                                                                  APPLICANT: Wyeth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         57.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       457
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

169

Gaps

12;

2;

Gaps

5.

Indels

13;

Score 97.2; DB 13 Pred. No. 1.4e-17, 0; Mismatches 13

5.4%;

Length 496;

```
1698 TGAGCCCCCAGATGTCACACCTGTCCGCACGCACGCCATGGATGCCCACGCATGTGCA 1757
                                                                                                                                                                                                                                           1 AGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCCGCCAGTGCCATGGCC
                                                                                                        1638 AGTCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGGACAGCCCACCAGTGCCATGGCC
                                                                                                                                                                                                                                                                                                                     1758 AAAACAACTCAGGGACCAGGGACAGACC 1785
  Query Match 5.4'
Best Local Similarity 87.8'
Matches 130; Conservative
                                                                                                                                                         셤
                                                                                                                                                                                                                                                              음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Charlebois Timothy S.
APPLICANT: Charlebois Timothy S.
APPLICANT: Charlebois Timothy S.
APPLICANT: Melvillam M.
APPLICANT: Mounts, William M.
APPLICANT: Sinacore, Martin S.
APPLICANT: Brown, Bugene L.
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
APPLICANT: Miller, Christopher P.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
FILE REFERENCE: 0.1997.027701
CURRENT APPLICATION NUMBER: US/11/128,061
CURRENT PILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425
PRIOR FILING DATE: 2004-05-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                981 GGGTCCGTCTACCCACCCAAC---GAAGGCTTCTGCCCATGCCGAGAGTCTGGCATTCAG 1037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATGTCAGCACCTGCAGGTTTGGTGCGCCTCTGTTTCTCTCCCCACCCCCCCACTTTTACAAC 1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTGTTCCTAGACATCCATCCGGTCACTGGGATCCCCATGAACTGTTCTGTGAAGATGCAG 1217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCGACCCTGTGTTGTCAGAAGCTGTTCTTGGTCTGAACCCTAACCCCAAAGGAGCATTCC 1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1218 CTGAGCCTCTACATCAAATCTGTCAAGGGCATCGGGCAAACAGGGAAGATCGAGCCAGTA 1277
                                                                                                        800
                                                                                                                                        TTTACAAAAATTGTGGAAGTGGAAAAACGTCGCTGGACTGGTGGACGACGACACG 289
                                                                                                                                                                                                                                                                    349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 590 GCCGACGAGAAGTTCGTTTTCGGCCATAAAAGGCATGCGTCCAAACAAGAAGAAGAAAAGAGGA
681 ATGAACAACTCGAATTCTGGGGTCTTCACTGTCTTCACGGGCGTCCAGAATTTCAGCAGG 740
                                                 170 AGAAATGGAACTAATGATGGGGAGTATGTTTTTTCTGACTGGAGAGGACAATTACCTGAAC 229
                                                                                                                                                                                                             TGTAACATGATCAATGGGACTTCCGGGCAGATGTGGGCACCCTTCATGACACCCCGAATCC 860
                                                                                                                                                                                                                                                                                                                  TCGCTGGAATTCTTCAGCCCGGAGGCATGCAGGTCCATGAAGCTGACCTACAACGAATCA 920
                                                                                                                                                                                                                                                                                                                                                                         409
                                                                                                                                                                                                                                                                                                                                                                                                                        921 AGGGTGTTTGAAGGCATTCCCACGTATCGCTTCACGGCCCCCCGATACTCTGTTTGCCAAC 980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            410 GAGAACGTAGAAGGACTGCCTGCTTTTCGGTATAAGGTGCCTGCAGAAATACTAGCCAAT 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            530 AACGTCAGCATTTGCAAGAATGGTGCGCCCATTATCATGTCTTTCCCACACTTTTACCAA 589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      650 TCATTTGTGGACATTAATCCTTTGACAGGAATTATTTAAGAGGGSCCAAGAGATTCCAA 709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            710 ATCAACACGTACGTTAAGAAGCTGGATGACTTTGTGGAAACGGGAAACATTAGGMCTATG 769
                                                                                                                                                                                                                                                                                                                                                           350 ACCCTGTACATCTTCCCATCTGACTTCTGCAGGTCCGTCTATAAACTTTCAGTAGCTTT
                                                                                                     741 ATCCATCTGGTGGACAAATGGAACGGACTCAGCAAGATCGATTATTGGCATTCAGAGCAG
                                                                                                                                                                                                                                                           riccarrargarcaacagacagacagarrcrirrcacccarraaraagaagargag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 470 rccrccaaaacgcrgccrrcrgraracccaaggaaacrgcargaaggagrgcrg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1278 GITCIGCCGTIGCTGTGGTTCGAACAGAGCG 1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Krirircccagigargiarcricaargagagig 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2632, Application US/11128061
Publication No. US20060003958A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 7285
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2632
LENGTH: 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-2632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-11-128-061-2632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1158
                                                                                                                                                                                                          801
                                                                                                                                                                                                                                                              290
                                                                                                                                                                                                                                                                                                                  861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                     ઠે
                                                                                                                                              원
                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
1698 TGAGCCCCCAGATGTCACACCTGTCCGCACGCACGCCATGGATGCCCACGCATGTGCA 1757
                                                                                                                                                                                                                                                APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Mounts, William M.
APPLICANT: Hann, Louane E.
APPLICANT: Brown, Bugen L.
APPLICANT: Leonard, Mark W.
APPLICANT: Brown, Bugen L.
APPLICANT: Miler, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
CURRENT PLILING DATE: 2005-05-11
CURRENT APPLICATION NUMBER: US 60/570,425
PRIOR FILING DATE: 2004-05-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AGCCCCTACACCCCGCTTCTTGAGGACTCTCTCAGCGGACAGTCCGCCAGTGCCATGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 496;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 97.2; DB 12;
Pred. No. 1.4e-17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1758 AAAACAACTCAGGGACCAGGGACAGACC 1785
117 AAATC-ACTCAGGGACCAGGGACAGACC 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               117 AAATC-ACTCAGGACCAGGGACAGACC 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Search completed: February 23, 2006, 18:46:02
Job time : 549.539 secs
                                                                                                                                      Sequence 6274, Application US/11128061
Publication No. US20060003958A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S.4%;
Best Local Similarity 87.8%;
Matches 130; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 7285
SOFWHARE: Patentin version 3.3
SEQ ID NO 6274
IENCTH: 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA; ORGANISM: Cricetulus griseus
US-11-128-061-6274
                                                                                                                                                                                                                                APPLICANT: Melville, Mark W.
                                                                                               RESULT 15
US-11-128-061-6274
```

5.1.7	Copyright (c) 1993 - 2006 Biocceleration Ltd.	.•	
version	- 2006		
GenCore version 5.1.7	(c) 1993		
	Copyright		

sw model OM protein - protein search, using

February 23, 2006, 12:34:44; Search time 152 Seconds (without alignments) 1471.341 Million cell updates/sec Run on:

US-08-765-108-8 Title:

2681 Perfect score:

1 MGGSSRARWVALGLGALGLL......YSESLMSPAAKGTVLQEAKL 509 Sequence:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

2443163 seqs, 439378781 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A\_Geneseq\_21 ..

geneseqp2003as:\* geneseqp2003bs: geneseqp2000s:\* geneseqp2001s:\* geneseqp2004s:\* geneseqp2005s:\* geneseqp1980s:\* geneseqp1990s:\* geneseqp2002s:\* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

		de			SUMMERTES			
Result No.	Score	Query	Length	DB	<b>a</b> .	Desc	Q	
п	2681	100.0	509	. 2	AAW93575	Aaws	Aaw93575 Mouse sca	
7	2681	100.0	509	Ŋ	AAY44020	Aay4	Mouse	
m	2681	100.0	509	Ŋ	ABB57092	Abbs	Mouse	
4	2681	100.0	509	Ŋ	AAE21525	Aae2	Aae21525 Murine sc	
S	2681	100.0	509	α	ADJ53337	Ad15333	т.	
9	2681	100.0	509	σ	ADZ13455	Adzı	Adz13455 Murine ca	
7	2681	100.0	509	σ	AEB03940	Aeb0	Aeb03940 Murine Sc	
80	2681	100.0	519	œ	ABO84950	Apo8	Abo84950 Murine ca	
0	2681	100.0	519	œ	ADR67033	Adr6703	7033 Mouse can	
10	2677	99.9	509	œ	ADU51468	Adu5	Adu51468 Mouse sca	
11	2504	93.4	509	æ	ADU51466	Adus	Adu51466 Rat scave	
12	2504	93.4	510	7	ADE56446	Ades	Ade56446 Rat Prote	
13	2504	93.4	510	7	ADE56442	Ades	Ade56442 Rat Prote	
14	2479	92.5	509	7	ADE55241	Ades		
15	2468	92.1	206	<u>,</u>	ADZ13453	Adzı	Adz13453 Murine ca	
16	2447	91.3	509	~	AAR88465	Aare	Aar88465 Hamster s	
17	2447	91.3	509	7	AAW93574	Aaw9	Aaw93574 Hamster s	
18	2447	91.3	509	7	AAY44019	Aay4	Aay44019 Hamster S	
19	2447	91.3	509	'n	ABG33056	Abg3	Abg33056 Hamster s	
20	2447	91.3	509	Ŋ	AAE21523	Aae2	Aae21523 Hamster s	
21	2447	91.3	509	9	AB027241	Abo2	Abo27241 Human sca	
22	2447	91.3	509	æ	ADJ46121	Adj4	Adj46121 Human sca	
23	2447	91.3	509	œ	ADJ53335	Adje	Adj53335 Hamster S	
24	2447	91.3	509	œ	ADU51467	Adus	Adu51467 Hamster s	

509 9 AEB03938 509 6 AB027240 509 9 AD213464 509 9 AD213466 509 2 AAW97899 509 2 AAW97899 509 2 AAW97899 509 2 AAW97900 509 2 AAW97901 509 2 AAW97901 509 2 AAW97901 509 2 AAW97901 509 2 AAW97901 509 6 AAO1106 509 6 AAO1106 509 6 AAO1106 509 7 ADES6444 510 7 ADES6444 510 7 ADES6444 510 7 ADES62317 511 7 ADES62317 512 7 ADES6231 513 7 ADES6231 514 7 ADES6231 515 7 ADES6231 516 7 ADES6231 517 7 ADES6231 518 7 ADES6231	Aeb03938 Hamster S Abo27240 Human sca Adj46119 Human sca	Human Human Human		Human Human Human	Ade56448 Human Pro Ade56444 Human Pro Ade40210 Human NOV Abc22117 Novel hum	Novel Human Human PRO po
	AEB03938 AB027240 ADJ46119	ADZ13464 ADZ13458 ADZ13466 AAW97899	AAW97900 ABB12012 ADE09273	AAY49573 AAO31106 ADL61295	ADE56448 ADE56444 ADE40210 ABG22317	ADE08291 ABR62035 ADE55243 ADP23287
			0.00	0 0 0 0 0	0 0 0 L	1000
	85.6 82.1 82.1	82.1 82.1 82.1 81.1	81.8 81.8 81.8	81.8 81.8 81.8	81.8 81.8 80.6	76.5 75.4 75.4 75.4
88 82 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	2296 2200 2200	2200 2200 2200 2193	2193 2193 2193	2192	2192 2192 2160 2068 5	2022.5 2022.5 2022.5 2022.5
	25 26 27	28 30 31	8 8 8 8 8 8	35 36 37	8 6 4 4 8 0 0 E	4 4 4 4 10 6 4 7

# ALIGNMENTS

RESULT 1

Mouse scavenger receptor class B-I protein AAW93575 standard; protein; 509 AA. (first entry) 17-JUN-1999 AAW93575; **AAW93575** 

Scavenger receptor class B type I; mouse; steroid production; HDL; cholesterol; cholesteryl ester transport; high-density lipoprotein; lipoprotein; steroidogenic tissue; SR-BI; contraception; treatment; disorder; overproduction; underproduction; menopause; breast cancer; prostate cancer; endometriosis; fibroid tumour.

вр. Mus

WO9911288-A1.

11-MAR-1999.

98WO-US018463. 04-SEP-1998; 97US-0057943P. 05-SEP-1997; (MASI ) MASSACHUSETTS INST TECHNOLOGY.

Krieger M;

WPI; 1999-204984/17. N-PSDB; AAX23404 mammals - by administering Modification of steroid production in mamm modulator of SR-BI expression or activity.

Disclosure, Page 81-82, 86pp, English.

This invention describes a method for modifying steroid production in a mammal which comprises administering a compound that alters cholesterol or cholesteryl ester transport from high-density lipoprotein (BDL) or other lipoproteins to liver or steroidogenic tissues via SR-B1 (scavenger receptor class B type I). This method is useful for female contraception, for treating disorders characterised by overproduction of steroids, for treating disorders characterised by underproduction of steroids, especially menopause, for treating disorders that can be treated by decreasing steroid production, especially breast cancer, prostate cancer,

control of cholesterol levels in

```
This sequence represents the mouse scavenger receptor class BI (SR-BI) which is used in a method of modulating cholesterol transport. The method comprises selectively altering the transport of lipid, cholesterol and/or lipoproteins (or their components) into and out of mammalian cells to alter plasma cholesterol levels, by administering a compound which alters the expression or activity of the SR-BI scavenger protein receptor. This alters the rate of clearance of the protein component of high density lipoprotein (HBL) as compared to the ester component of HBL. The method may be used to control cholesterol levels in the blood plasma of mammals
                                                 Modulating cholesterol transport for the
                                                                                   Disclosure; Col 29-32; 23pp; English
             WPI; 1999-589717/50
                       N-PSDB; AAZ30616
                                                                                                                                                                                                                                         Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                  Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABB57092;
                                                              blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABB57092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EXEXEXEX
 쉱
                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                           윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                          ö
                                                                                                                                                   120
                                                                                                                                                                 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                    121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                      SKIDYWHSEQCHMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                       FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                              301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                   9
                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hamster; scavenger receptor; modulation; cholesterol transport; lipid; lipoprotein; mammalian cell; plasma; expression; clearance rate; HDL; high density lipoprotein; ester; blood.
                                                                                                                    1 MGGSSRARWVALGLGALGLEFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                   PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                       241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEPFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                     LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                   1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                   VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                      WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                                                                                                                   #GYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKMNGL
                                                                                                                                                                                                                                                                                                                                                                                                       LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                       AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                          Gaps
                                                                          ö
                                                Length 509;
                                                                          Indels
                                                Score 2681; DB 2;
Pred. No. 3.8e-261;
                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mouse Scavenger receptor class BI protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYPE-) UNIV PENNSYLVANIA.
(MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rigotti A, Kozarsky K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Z
 tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY44020 standard; protein; 509
                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96US-00749907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-JAN-2000 (first entry)
fibroid
                                                                         Conservative
                                                          Best Local Similarity
Matches 509; Conserv
 endometriosis or
                        Sequence 509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS5962322-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Krieger M,
                                                                                                                                                   61
                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAY44020,
                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SXS
                                                                                                                     g
                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                              ठे
                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                   ઠે
                                                                                                                                                  ઠે
                                                                                                                                                                     요
                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                     Š
```

```
120
                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                              9
                                                                                                                                               1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                    61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                 FQPDKSHGSESDYIVLPHILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SKIDYWHSBQCNMINGTSGQMWAPFMIPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIBPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421 AMGGKPLSTFYTÓLVLMPQVLHYAQYVLLGLGGLLLLVPIICOLRSÓEKCFLFWSGSKKG
                                                                                                                                                                                                                       61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                  FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SKIDYWHSEQCHMINGTSGOMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                               WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse ischaemic condition related protein sequence SEQ ID NO:202.
                                                         ;
0
100.0%; Score 2681; DB 2; Length 509; 100.0%; Pred. No. 3.8e-261; ive 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABB57092 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                         Best Local Similarity 100.
Matches 509; Conservative
```

```
361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                        Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; Col 49-52; 41pp; English.
                                                                                                                                                                       AAE21525 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                          94US-00265428.
97US-00765108.
                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-314680/35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; AAD33917.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                              JS6350859-B1
                                                                                                                                                                                                                                                                                                                                                                                                                          23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                      27-MAR-1997;
                                                                                                                                                                                                                          16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                       26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Krieger M,
                                                     421
                            421
                                                                              481
                                                                                                        481
                                                                                                                                                                                                  AAE21525;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                            SR-BI
                                                                                                                                                                                                                                                                                                                      fus
                                                                                                                                                           AAE2152
                                                     유
                                                                            ò
                                                                                                   셤
                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                     The present invention describes a method for examining ischaemic conditions, comprising measuring the expression levels of particular genes (I) in a test sample or determining the expression profile of a gene group in the sample comprising genes selected from (I). The method is useful for examining the ischaemic condition (e.g. compressive ischaemia or vacospastic ischaemia) by measuring expression levels of particular genes (ABIS9302 to ABIS9912, encoding the protein sequences in ABB57020 to ABB57374) or by determining the expression profile of a gene group comprising these genes. The expression indicator when screening for ischaemic condition-improving drugs or therapeutics for ischaemic diseases. ABIS9913 and ABIS9914 represent PCR primers for a meuse ischaemic condition related sequence, which are used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VPFYLSVYFFEVVNPNBVLNGQKPVVRBRGPYVYRBFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMMILALVTMGORAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VPFYLSVYPFEVVNPNEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGORAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SKIDYWHSEQCUMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                Examining the ischemic condition (e.g. occlusive ischemia) by measuring expression levels of particular genes defined in the specification or by determining the expression profile of a gene group comprising these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
vasospastic ischaemia; ischaemic condition; ischaemic disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                   Ishii Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 2681; DB 5;
Pred. No. 3.8e-261;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in the exemplification of the present invention
                                                                                                                                                                                   Takahashi Y, Nagata T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                        (UYNI-) UNIV NIHON SCHOOL JURIDICAL PERSON
                                                                                                                                                                                                                                                                                                                 Claim 2; Page 576-579; 2690pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                                                     18-MAY-2001; 2001WO-JP004192
                                                                                                                               18-MAY-2000; 2000JP-00145977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                   Asai S,
                                                                                                                                                                                                           WPI; 2002-034733/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                        N-PSDB; ABI99330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 509 AA;
                                                  WO200188188-A2
                         Mus musculus
                                                                                                                                                                                  Ishikawa K,
                                                                            22-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                          geneg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ્ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
```

```
480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to an antibody specific for scavenger receptor protein type B-I (SR-BI) derived from murine and hamster. Antibodies of the invention are useful for detection, characterisation and isolation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VEYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Scavenger receptor protein type BI; low density lipoprotein; LDL; murine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFPEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         receptor proteins and for inhibiting scavenger protein binding to low density lipoprotein (LDL). The present sequence is murine SR-BI protein
AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MGGSSRARWYALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       untibody specific for scavenger receptor protein type B1 useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       receptor proteins, as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       detection, characterization or isolation of receptor proteins, a
inhibiting scavenger protein binding to low density lipoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 2681; DB 5; Length 509; Best Local Similarity 100.0%; Pred. No. 3.8e-261; Matches. 509; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of
                                                                                                                       509
                                                                                                                                                                            SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      furine scavenger receptor type B-I (SR-BI)
                                                                                                                       SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MASI ) MASSACHUSETTS INST TECHNOLOGY.
```

```
for the treatment or prevention of atherosclerosis, fat uptake by adipocytes and some endocrine disorders. This sequence represents murine SR-BI scavenger receptor of the invention.
                                                                        Query Match 100.0%; Score 2681; DB 8; Best Local Similarity 100.0%; Pred. No. 3.8e-261; Matches 509; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Murine cancer-associated protein #109.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ż
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-SEP-2004; 2004WO-US031617.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-SEP-2003; 2003US-00669920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADZ13455 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morris DW, Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHIR ) CHIRON CORP
                                                   Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2005031001-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-JUN-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-APR-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytostatic
                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                        61
                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADZ13455;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
   883333
                                                                                                                                               셤
                                                                                                                                                                                           g
                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                        ò
                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method for screening compounds that alter transport of lipids, cholesterol, lipoproteins or their components, mediated by the SR-B1 scavenger receptor (SR-B1 HDL receptor) or a homologue. The test compound is administered to an animal and cholesterol or bile acid levels, production levels of steroid hormones or alterations in chemical composition of lipids, lipoproteins, cholesterol, steroid hormones, bile acids and Vitamin A is measured. Agents that alter transport of lipids, cholesterol or lipoproteins are potentially useful
                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                Mouse; SR-BI; scavenger receptor; HDL receptor; lipid; cholesterol; lipoprotein; bile acid; steroid hormone; vitamin A; atherosclerosis; adipocyte fat uptake; endocrine disorder; antiarteriosclerotic; receptor; scavenger receptor class BI.
300
                                                                                     360
                                                                                                           360
                                                                                                                                   420
                                                                                                                                                480
                                                                                                                                                                                                AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Screening for agents that influence lipid transport, useful e.g. for treating or preventing atherosclerosis, based on modulation of the SR-BI scavenge receptor.
                                                                                                     FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                   241 SKIDYWHSEQCUMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                     SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                     FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                   LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                   AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                           Murine SR-BI scavenger receptor polypeptide.
                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 4; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Krieger M;
                                                                                                                                                                                                                                                                                                                      Ź
                                                                                                                                                                                                                                                                                                                   ADJ53337 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-JUN-2002; 2002US-00178611.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96US-00749907.
                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kozarsky K, Rigotti A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-246237/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KOZA/) KOZARSKY K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (RIGO/) RIGOTTI A.
(KRIE/) KRIEGER M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; ADJ53336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2003167475-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                   06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Screening
               181
                                                                                    301
                                                                                                           301
                                                                                                                                   361
                                                                                                                                                           361
                                                                                                                                                                                  421
                                                                                                                                                                                                          421
                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                       481
                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gg.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus
                                                                                                                                                                                                                                                                                           RESULT 5
ADJ53337
                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                      요
                                                                                                                                                                             ठे
                                                                                                                                                                                                   8
                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                 셤
             윰
                                     ŝ
                                                           용
                                                                            8
                                                                                                                                  ઠે
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    480
                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                           61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                           121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                            MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                     PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LINPNPKEHSLFLDIHPVTGIPMNCSVKWQLSLXIKSVKGIGQTGKIEPVVLPLLMFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                  VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                          WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
the
                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA microarray; microarray; biochip; cancer; neoplasm;
                                                                                                                                                    ô
                                                                                                         509;
                                                                                                           Length
                                                                                                                                                  Indels
```

Ŋ

```
associated (CA) nucleic acid, comprising two or more nucleic acid probes. The invention also relates to a peptide array comprising two or more isolated acid probes. The invention also relates to a peptide array comprising two or more that binds to a polypeptide, an isolated antibody or its fragment which binds to a polypeptide, which is prepared by immunizing a host animal with a composition comprising the polypeptide or its antigen binding the antigen or its antigen binding the antigen or its antigen binding fragment, a composition comprising the antided or its antigen binding fragment, a composition comprising the antided of detecting a CA nucleic acid a method of diagnosing cancer, a method of detecting cancer and a method of inhibiting expression of a CA nucleic acid in a cell. The CA nucleic acids are useful for detecting CA nucleic acids in a cell. The CA nucleic acids are useful for detecting CA nucleic acids in a cell. The CA nucleic acids are useful for detecting cells from the individual with the antibody and detecting a complex of a CA procession from the cancer cells and the antibody where the detection of the complex correlates with the presence of cancer cells in the individual or for delivering a therapeutic agent to cancer cells in an individual or for delivering a therapeutic agent to cancer cells in an individual or for delivering a therapeutic agent to cancer cells in an individual or for delivering a useful for diagnosing cancer, in the sequence represence or ancer and in a mindividual or for delivering a cancer cells in an individual or for delivering a cancer cells in an individual or for delivering a useful for diagnosing cancer, a cells in an individual or for delivering a cancer cells in an individual or for delivering a cancer and for inhibiting expression of a CA gene in a cell this sequence represents a murine cancer associated protein of
                                                                                                                               Nucleic acid array useful for detecting cancer associated nucleic acid, comprises two or more nucleic acid probes.
                                                                                                                                                                                                                                                                                                      The invention relates to a nucleic acid array for detecting a cancer
                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 975; 198pp; English
                                                                   N-PSDB; ADZ13454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the invention.
```

Sequence 509 AA;

ö Length 509; Indels 100.0%; Score 2681; DB 9; 100.0%; Pred. No.. 3.8e-261; tive 0; Mismatches 0; 509; Conservative Similarity Query Match Local Matches

VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKOVRIDPSSLSFGMWKEIP 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP Gaps 61 ઠ 셤 ò

9 9

VPFYLSVYFFEVVNPNEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120 POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180

셤

ઠે a ò

움 8

유

셤 ò g ò a

Š

481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509

509 481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL

셤

AEB0394

Ź AEB03940 standard; protein; 509

AEB03940;

(first entry) 25-AUG-2005 Murine Scavenger Receptor Class B-1, SEQ ID

Antilipemic; transgenic animal; Scavenger Receptor Class B-1; high density lipoprotein receptor; cholesterol; lipid.

Mus sp.

JS2005136005-A1

23-JUN-2005

2004US-00933037 02-SEP-2004;

95WO-US007721 96US-00749907 23-JUN-1994; .9-JUN-1995;

97US-00765108 99US-00385799 30-AUG-1999; 7-MAR-1997

(MASI ) MASSACHUSETTS INST TECHNOLOGY. (UYPE-) UNIV PENNSYLVANIA.

Rigotti A, Krieger M; WPI; 2005-457475/46 Kozarsky K,

N-PSDB; AEB03939, AEB03942.

New genetically engineered mouse or derivative cells with inactivated SR-BI gene expression or activity, useful as a model for designing drugs that can modulate cholesterol transport.

Disclosure; SEQ ID NO 4; 21pp; English.

cells derived from it, where Scaveger Receptor Class B-1 (SR-Bi) gene expression or SR-BI activity has been inactivated. SR-BI is a high density lipoprotein (HDL) receptor. It was found that estrogen density lipoprotein (HDL) receptor. It was found that estrogen density lipoprotein (LDL)-receptor, and estrogen also upregulates SR-BI in rat defend membranes and other non-placental steroidogenic issues from animals treated with estrogen, but not in other non-placental non-steroidogenic tissues from careful as a decrease in blood cholesterol levels. The animal is useful as a model for designing drugs that can modulate cholesterol transport or that can stimulate or inhibit the binding to and lipids and cholesterol by cells. The present sequence is SR-BI, which was used to illustrate the invention. Note: The SRO ID 3 given in the sequence listing (the sequence shown in AEB03939) is stated to be 1785 nucleotides the end of each line of the sequence shown in the sequence listing, resulting in a sequence that is 1761 nucleotides in length. Therefore a corrected version of the sequence has been produced with Ns added to in length. However, there appears to be a 1 to 3 nucleotide deletion at shown in AEB03942) genetically to encode SEQ ID 4 (given in AEB03940) (the sequence of each line of the sequence shown in present invention relates to a novel eplace the missing nucleotides 

Sequence 509 AA;

Gaps ö Length 509; Indels 100.0%; Score 2681; DB 9; 100.0%; Pred. No. 3.8e-261; ive 0; Mismatches 0; Conservative Similarity Matches 509; Query Match Best Local &

ö

```
associated (CA) nucleic acids encoding them. The invention also relates
                                                                                                                                   Sequence 519 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-NOV-2004
                                                                                                                                                                                                                                                                                                                                       251
                                                                                                                                                                                                                                                                                                                                                                         311
                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                      71
                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                      131
                                                                                                                                                                                                                                                                                                       191
                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADR67033;
                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 9
ADR67033
88888888888888888
                                                                                                                                                                                                    Б
                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                           240
                                                                                                                                           300
                                                                                                                                                                                                                                               480
                                                                                                           240
                                                                                                                                                                             360
                                                                                                                                                                                     FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                             420
                                         120
                                                        120
                                                                         180
                                                                                 420
                                                                                                                                                                                                                                                       The invention relates to cancer-associated proteins (CAP) and the cancer-
               61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                   MGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                       LINPNPKEHSLFLDIHPVTGI PMNCSVKMQLSLYI KSVKGIGQTGKI EPVVLPLLWFEQSG
                                        VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                        FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                          WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKMNGL
                                                                                                                                          SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                           FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                            LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                              AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel human cancer associated protein encoded within open reading of cancer associated gene, useful as targets for diagnosing cancer
                                                                                                                                                                                                                                                                                                                                                                                                        Mouse; cancer-associated protein; CAP; cancer; cytostatic.
                                                                                                                                                                                                                                                                                                                                                                                        Murine cancer-associated protein (CAP) MP07-081.
                                                                                                                                                                                                                                                                              SQDKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 565; 182pp; English
                                                                                                                                                                                                                                                                                        SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                       ABO84950 standard; protein; 519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (SAGR-) SAGRES DISCOVERY INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-DEC-2003; 2003WO-US040081,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-DEC-2002; 2002US-00322281.
                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-499109/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; ABD33431
                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2004058146-A2
                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Morris DW,
                                        61
                                                                        121
                                                                                                                          181
                                                                                                                                          241
                                                                                                                                                           241
                                                                                                                                                                            301
                                                                                                                                                                                            301
                                                                                                                                                                                                             361
                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                              481
                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                        AB084950
                                                                                                                                                                                                                                                                                                                      셤
                                                                   8
                                                                                   ద
                                                                                                   કે
                                                                                                                   a
                                                                                                                                         ò
                                                                                                                                                      g
                                                                                                                                                                       ð
                                                                                                                                                                                       g
                                                                                                                                                                                                           Š
                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                             8 6
                   셤
                                       ઠે
```

```
to a method for treating cancers involving administering to a patient an inhibitor of CAP, and a method of screening for anticancer activity in a potential drug involving providing a cell that expresses a CA gene contacting a tissue sample derived from a cancer cell with an anticancer drug candidate and monitoring the effect of the anticancer drug candidate on expression of the CA gene. The CAP proteins are useful for detecting cancer associated with expression of a CAP protein in a test cell sample activity of a CAP protein in a test cell sample activity of a CAP protein capable of modulating the activity of a CAP protein. The CA nucleic acids are useful for diagnosing cancer, involving determining the expression of a CA nucleic acid in a sequence data for this spatent did not form part of the invention. Note: The specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LINPNPKEHSLFLDIHPVTGIPPNCSVKAQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 431 AMGGKPLSTFYTQLVIAMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIBPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WCYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 519;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer; cancer associated nucleic acid; cancer associated cancer associated protein; CAP; cytostatic; vaccine; gene lymphoma; leukaemia; mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           associated protein sequence SEQ ID NO:79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 2681; DB 8; Best Local Similarity 100.0%; Pred. No. 3.9e-261; Matches 509; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SQDKEAIQAYSESLMSPAAKGTVLQEAKL 519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ŕ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADR67033 standard; protein; 519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
```

ö

Mus sp.

```
The present invention describes an isolated cancer associated (CA)

nucleic acid (I). Also described: (1) an expression vector comprising (I) c. (2) an host cell comprising (I) or the expression vector (3) a microarray for detecting a CA nucleic acid; (4) an isolated cancer associated protein (CAP) polypeptide, encoded within an open reading frame of a CA sequence; (5) an isolated antibody or its antigen binding frame of a CA sequence; (5) an isolated antibody or its antigen binding fragment, that binds to the above polypeptide; (6) a hybridoma that produces the above monoclonal antibody; (7) a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient; (8) a kit for detecting cancer cells; comprising the (monoclonal) antibody described above; (9) methods for diagnosing cancer or for detecting the presence or absence of cancer cells in an individual; (10) a method for inhibiting growth of cancer cells in an individual; (11) an electronic library comprising the above polymocleotide or polypeptide, or their fragments; (13) methods of secreening for anticancer activity or a bioactive agent capable of modulating the activity of a CAP; (14) and test cancer cell sample, or with the presence of an antibody in a test serum sample; (15) a method for treating cancers; and (16) a method for inhibiting the expression of CA gene in a cell. The CA sequences have cytostatic activity, and can be used in vaccines, and in gene therapy. The composition and methods are useful for detecting, diagnosing.

The composition and methods are useful for detecting, diagnosing.

The preventing and reacting cancers, especially limphoma and leukamia. They may also be used in a cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        may also be used in screening for agents that modulate cancer. The present sequence represents a cancer associated protein (CAP) sequence, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 79; 166pp; English.
                                                                                                                                                                                             14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-0038B838.
25-DFC-2003; 2003US-00669920.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                     (SAGR-) SAGRES DISCOVERY INC.
                                                                                                                                            17-FEB-2004; 2004WO-US005000
                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; ADR67031, ADR67032
                                                                                                                                                                                                                                                                                                                                                                        Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                                        2004-652915/63.
                                                   WO2004074321-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 519 AA;
                                                                                                 02-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                     Morris DW,
```

Gaps ; 0 100.0%; Score 2681; DB 8; Length 519; 100.0%; Pred. No. 3.9e-261; Indels ö 0; Mismatches Best Local Similarity 100. Matches 509; Conservative Similarity Query Match

ઠે 셤 δ g 8 셤

181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240

SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 310 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 370 LNPNPKEHSLFLDIHPVTGIPPMCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 430 431 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQBKCFLFWSGSKKG 490 LAPAPKEHSLFLDIHPVTGI PMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG Mouse scavenger receptor class B type I-related protein - SEQ ID 3. monoclonal antibody; IgG1/kappa; scavenger receptor class B type 509 491 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 519 SODKEAIQAYSESLMSPAAKGTVLQEAKL ADUS1468 standard; protein; 509 AA 10-MAR-2003; 2003JP-00063407. 29-MAY-2003; 2003JP-00152800. UYKA-) UNIV KANAZAWA TLO YG. (first entry) SR-BI; spermatogenesis. JP2004331633-A. 25-NOV-2004. 311 371 421 ADU51468; 251 301 361 481 RESULT 10 ADU51468 è g ઠે g 8 8

Novel monoclonal antibody which belongs to mouse IgG1/kappa subclass a which specifically binds to scavenger receptor class B type I (SR-BI) rat origin, useful for functional analysis of SR-BI. WPI; 2004-810031/80.

Disclosure; SEQ ID NO 3; 21pp; Japanese.

IgG1/kappa subclass which specifically binds to scavenger receptor class B type I (SR-BI) of rat origin. The monoclonal antibody of the invention is useful for the detection and analysis of SR-BI. The monoclonal antibody of the invention is useful for analysing the influence of SR-BI on spermatogenesis in testis. The present amino acid sequence represents a mouse SR-BI-related protein. The invention comprises a monoclonal antibody that belongs to the mouse

Sequence 509 AA;

1; Indels 99.9%; Score 2677; DB 8; 99.8%; Pred. No. 9.6e-261; 11ve 0; Mismatches 1; Matches 508; Conservative Query Match Best Local Similarity

ö

1 MGGSSRARWVALGLGALGLLPAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP

ω

ö

Gaps ö 9

a 8 d ઠે

8

8 S 요 ઠે g ò 임 ઠે 셤 ઠે 셤

```
VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                               61 VPPYLSVYFPEVVNPSEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR 120
                                                                                                                                                                                                                                                                                                                                 FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSQPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
on spermatogenesis in testis. The present amino acid sequence represents a rat SR-BI-related protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rat; pain; neuronal tissue; gene therapy; spinal segmental nerve injury; chronic constriction injury; CCI; spared nerve injury; SNI; Chung.
                                                                                                                                                                                                                                                                                                            POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                        FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LNPDPPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLPLLFFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 MMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIIYQLKSQEKCFLFWSGSKKG
                                                                                                                                                                     1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                        SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                      MGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                               16; Indels
                                                                                              Length
                                                                                            93.4%; Score 2504; DB 8; 92.3%; Pred. No. 2.9e-243; ive 23; Mismatches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SQDKEAMQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ż
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rat Protein D89655, SEQ ID NO 2299.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADE56446 standard; protein; 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-AUG-2001; 2001US-0312147P.
01-NOV-2001; 2001US-0346382P.
26-NOV-2001; 2001US-0333347P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-AUG-2002; 2002WO-US025765.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GEHO ) GEN HOSPITAL CORP.
(FARB ) BAYER AG.
                                                                                                                                 Matches 470; Conservative
                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus norvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003016475-A2.
                                                            Sequence 509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADE56446;
                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADE56446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
     ន្តដ្ត
                                                                                                                                                                                               엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                            임
                                                                                                                                                                                                                                                                                                                                                                                  충
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                           300
                                                                                                                                                                                      240
                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                            241 SKIDYWHSEQCNMINGTSGQWWAPFWTPESSLEFFSPEACRSWKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                    FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPPFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                         LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLMPBQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                180
                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention comprises a monoclonal antibody that belongs to the mouse IgG1/kappa subclass which specifically binds to scavenger receptor class be type I (SR-BI) of rat origin. The monoclonal antibody of the invention is useful for the detection and analysis of SR-BI. The monoclonal antibody of the invention is useful for analysing the influence of SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel monoclonal antibody which belongs to mouse IgG1/kappa subclass and which specifically binds to scavenger receptor class B type I (SR-BI) of rat origin, useful for functional analysis of SR-BI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A
                                                                                                                                   MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                       VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                            VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                              FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                      WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                      WGYDDPFVHFLNTYLPDMFPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKMNGL
                                                                                                                                                                                                                                                           SKIDYWHSEQCNMINGTSGQMWAPPMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                        LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rat scavenger receptor class B type I (SR-BI)-related protein - SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nonoclonal antibody; IgG1/kappa; scavenger receptor class B type I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 1; 21pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SODKEAIQAYSESIMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADU51466 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-MAY-2003; 2003JP-00152800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAR-2003; 2003JP-00063407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYKA-) UNIV KANAZAWA TLO YG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SR-BI; spermatogenesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-810031/80.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rattus norvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JP2004331633-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-FEB-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-NOV-2004
                                         61
                                                                                                              121
                                                                                                                                                  121
                                                                                                                                                                                      181
                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
```

420

420

480

360

121 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG

```
Woolf C, D'urso D, Befort K, Costigan M;

WE WPI; 2003-268312/26.

BE GENERAK; D89555.

WE WPI; 2003-268312/26.

RE GENERAK; D89555.

The composition comprising two or more isolated polypeptides, useful for preparing a medicament for treating pain in an animal.

The preparing a medicament for treating pain in an animal.

WE Claim 1; Page; 1017pp; English.

WE Claim 1; Page; 1017pp; Bnglish.

WE Compute the medication of the nucleic acid sequence. Also claimed are a vector comprising the nucleic acid sequence. Also claimed are a vector comprising the nucleic acid sequence. Also claimed are a vector comprising the nucleic acid sequence. Also claimed are a vector comprision of the nucleic acid sequence. Also claimed are a vector comprision of the nucleic acid sequence with the performance of decreases the expression of the polymucleotide sequence which is differentially expressed in neuronal tissue of a first animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the polymucleotides sequence which is differentially expressed in an animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the polymucleotide, an enchod for identifying a compound that regulates the activity of one or more of the polymucleotide, and an animal of one or more of the polymucleotide or method for identifying a compound useful in treating pain and a pharmaceutical composition comprising the one or more of the polymptides or their antibodies. The polymucleotide or the compound that contribute in a method for identifying a compound useful in treating pain and a pharmaceutical composition comprising the one or more of the polymptides or their antibodies. The polymptide or the compound that the polymptide or their antibodies. The polymptide or the compound that the sequence presented is a rate protein (shown in Table 2 of the specification) which is differentially expressed during pain in e.g. spinal segments and a differentially expressed du
```

Sequence 510 AA;

61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120 FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180 180 240 240 FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360 VPFYLSVYFFEVVNPSEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR 120 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300 9 1 MGVSSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSQPHFYNADPVLSEAVLG 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG Gaps °, 93.4%; Score 2504; DB 7; Length 510; 92.3%; Pred. No. 2.9e-243; ive 23; Mismatches 16; Indels Matches 470; Conservative Sest Local Similarity 121 181 301 301 361 361

8 6

셤

ò

d

8 6 8 6

```
expressed in an animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the compound that regulates the activity of one or more of the polynucleotides, a method for producing a pharmaceutical composition, a method for identifying a compound useful in treating pain and a pharmaceutical composition comprising the one or more of the polypeptides given in the pain and a pharmaceutical composition comprising the one or more polypeptides or their antibodies. The polynucleotide or the compound that modulates its activity is useful for preparing a medicament for treating pain (e.g. spinal segmental nerve injury (Chung), chronic constriction injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene injury (coll) and segmented is a rat protein (shown in Table 2 of the specification) which is differentially expressed during pain. Note:
421 MMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention discloses a composition comprising two or more isolated rat derivative or allelic variation of the nucleic acid sequence. Also claimed are a vector comprising the nucleic acid sequence. Also claimed are a vector comprising the nucleic acid sequence. Also comprising the vector, a method for identifying a nucleotide sequence which is differentially regulated in an animal subjected to pain and a kit to perform the method, an array, a method for identifying an agent that increases or decreases the expression of the polymucleotide sequence that is differentially expressed in neuronal tissue of a first animal subjected to pain, a method for identifying a compound which regulates the expression of the polymucleotide sequence which is differentially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New composition comprising two or more isolated polypeptides, useful for preparing a medicament for treating pain in an animal.
                                                                                                                                                                                                                                                                                                                                                                                      Rat; pain; neuronal tissue; gene therapy; spinal segmental nerve injury; chronic constriction injury; CCI; spared nerve injury; SNI; Chung.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  specification, but was obtained in electronic form directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Costigan M;
                                                                                                      481 SODKEAMOAYSESLMSPAAKGTVLOEAKL 509
                                                          481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                             Rat Protein D89655, SEQ ID NO 2295.
                                                                                                                                                                                                                Ā
                                                                                                                                                                                                                ADE56442 standard; protein; 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Befort K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page; 1017pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-2001; 2001US-0312147P.
01-NOV-2001; 2001US-0346382P.
26-NOV-2001; 2001US-0333347P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-AUG-2002; 2002WO-US025765.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GEHO ) GEN HOSPITAL CORP.
(FARB ) BAYER AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-268312/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Woolf C, D'urso D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rattus norvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003016475-A2
                                                                                                                                                                                                                                                                                                  29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-FEB-2003.
                                                                                                                                                                                                                                                         ADE56442;
                                                                                                                                                                   RESULT 13
                                                                                                                                                                                            ADE56442
```

```
D'urso D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
 Woolf C,
 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                        ö
                                                                                                                                                                      180
                                                                                                                                                                                         240
                                                                                                                                 120
                                                                                                                                                  121 FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180
                                                                                                                                                                                                           240
                                                                                                                                                                                                                              SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                           241 SEVNYWHSEQCNMINGTAGQMWAPFMTPESSLEFFSPEACKSMKLTYQESRVFBGIPTYR 300
                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                      421 MMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIIYQLRSQEKCFLFWSGSKKG 480
                                                                                                               61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                  FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                    301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSQPHFYNADPVLSEAVLG 360
                                                                           9
                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rat; pain; neuronal tissue; gene therapy; spinal segmental nerve injury; chronic constriction injury; CCI; spared nerve injury; SNI; Chung.
                                                                                     1 MGVSSRARWVALGLGGVLGLLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                         61 VPFYLSVYFFEVVNPSEVLAGKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR
                                                                                                                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                         WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                  LNPNPKEHSLFLDIHPVTGIPMNCSVKWQLSLYIKSVKGIGQTGKIBPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                          421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                        Gaps
                                                        ;
0
                                     Length 510;
                                                       16; Indels
                                     93.4%; Score 2504; DB 7; 92.3%; Pred. No. 2.9e-243;
                                                       23; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                         SODKEAMQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rat Protein AAC23892, SEQ ID NO 1055.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Z
                                                                                                                                                                                                                                                                                                                                                                                                                                              ADE55241 standard; protein; 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-AUG-2001; 2001US-0312147P.
01-NOV-2001; 2001US-0346382P.
26-NOV-2001; 2001US-0333347P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-AUG-2002; 2002WO-US025765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JAN-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GEHO ) GEN HOSPITAL CORP.
(FARB ) BAYER AG.
                                                       Matches 470; Conservative
                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2003016475-A2.
                   Sequence 510 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-FEB-2003
                                                                                                                                                                                                                              241
                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADE55241;
                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                 481
                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                         셤
                                                                          ð
                                                                                          셤
                                                                                                             ò
                                                                                                                            셤
                                                                                                                                                  ઠે
                                                                                                                                                                  셤
                                                                                                                                                                                         ઠે
                                                                                                                                                                                                      요
                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                               ò
```

```
The invention discloses a composition comprising two or more isolated rat cor human polymucleotides or a polymucleotide which represents a fragment, cor human polymucleotides or allelic variation of the nucleic acid sequence. Also claimed are a vector comprising the novel polymucleotide, a host cell comprising the vector, a method for identifying a nucleotide sequence which is differentially regulated in an animal subjected to pain and a kit to perform the method, an array, a method for identifying an agent that increases or decreases the expression of the polymucleotide sequence that increases or decreases the expression of the polymucleotide sequence that increases or decreases in neuronal tissue of a first animal compound that regulates the activity of one or more of the expression of a polymucleotide sequence which is differentially expressed in an animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the polymucleotides, a method for producing a pharmaceutical composition, a method for identifying a compound useful in treating cativity in an animal of one or more of the polypeptides or their antibodies. The polymucleotide or the compound that conjury (CDI) and spared nerve injury (CMUM), can activity is useful for preparing a medicament for treating pain (e.g. spinal segmental nerve injury (SNI)) in an animal (e.g. spinal sequence presented is a rat protein (shown in Table 2 of the sequence data for this patent did not form part of the printed conspectification) which is differentially expressed during pain. Note:

The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form directly from WIPO at fip. wipo.int/pub/published_pot_general corrections or electronic form directly from WIPO at the produce of the produce of the sequence of the seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 VPFYLSVYFFEVVNPSEVLNGQKPVVRERGPYVXREFRQKVNITFNDNDTVSYIENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMMTLALVTMGORAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDRSQGSESDYIVLFNILVLGGAVMMEDKPTSLKLLMTLGLVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INPOPREHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                  New composition comprising two or more isolated polypeptides, useful for preparing a medicament for treating pain in an animal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 WGYEDPFVNFLSKYFPDMFPIKGKFGLFVGMNHSEFWLFTVLQGVQNFSKIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEVKYWESBOCIMINGTAGOMWAPFMTPESSLEFFSPEACRSMKLTYOESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGGSSRARWVALGLGGVLGLLCAALGVIVILMVPSLIKQQVLKOVVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEPFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKBIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 92.5%; Score 2479; DB 7; Length 509; Best Local Similarity 91.2%; Pred. No. 9.7e-241; Matches 464; Conservative 25; Mismatches 20; Indels
Costigan M;
                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page; 1017pp; English
Befort K,
                                                                                         WPI; 2003-268312/26.
GENBANK; AAC23892.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 509 AA;
```

240

SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300 PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420 INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420

WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVONFSR1HLVDKWNGL

181 181 241 241 301 301 361 361

240

61 VPFYLSVYFFEVVNPNEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120

1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP

121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180

FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL

121

g ò 셤 ð . <mark>ପ</mark> 8

요 ઠે

```
Nucleic acid array useful for detecting cancer associated nucleic acid, comprises two or more nucleic acid probes.
                                                                                                                                                                                                                                                                                                               invention relates to a nucleic acid array for detecting a cancer
                                                                                                                             Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm; cytostatic.
                       509
                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 973; 198pp; English
                              SODKEAMOAYSESLMSPAAKGTVVQEAKL
                      SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                  Murine cancer-associated protein #108.
                                                                      ADZ13453 standard; protein; 506 AA
                                                                                                                                                                                                23-SEP-2004; 2004WO-US031617.
                                                                                                                                                                                                              23-SEP-2003; 2003US-00669920
                                                                                                   (first entry)
                                                                                                                                                                                                                                           Malandro MS;
                                                                                                                                                                                                                                                         WPI; 2005-273395/28.
                                                                                                                                                                                                                            (CHIR ) CHIRON CORP
                                                                                                                                                                                                                                                               N-PSDB; ADZ13452
                                                                                                                                                                    402005031001-A2
                                                                                                    16-JUN-2005
                                                                                                                                                                                  17-APR-2005
                                                                                                                                                                                                                                           ΩM,
                      481
                                    481
                                                                                     ADZ13453
                                                                                                                                                      Mus sp.
                                                                                                                                                                                                                                           dorris
                                                          RESULT 15
ADZ13453
                                                                               셤
                      ઠે
                                  g
```

ઠે 셤 ò 셤 8

셤

```
Search completed: February 23, 2006, 12:40:06 Job time : 153.5 secs
```

the antigen or its antigen binding fragment, a composition comprising the antibody and a carrier, a method of screening for anticancer activity, a method of detecting a CA nucleic acid, a method of diagnosing cancer, a method of treating cancer and a method of diagnosing cancer, a method of treating cancer and a method of thibiting expression of a CA nucleic acids are useful for detecting CA nucleic acids. The antibody is useful for detecting the presence or absence of cancer cells in an individual which involves contacting cells from the individual with the antibody and detecting a complex of a CA protein from the cancer cells and the antibody, where the detection of the complex correlates with the presence of cancer cells in the individual. The composition is useful for inhibiting growth of cancer cells in an individual or for delivering a therapeutic agent to cancer cells in an individual. The invention is also useful for diagnosing cancer, for treating cancer and for inhibiting expression of a CA gene in

associated (CA) nucleic acid, comprising two or more nucleic acid probes. The invention also relates to a peptide array comprising two or more isolated polypeptides encoded by a CA nucleic acid sequence, a compound that binds to a polypeptide, an isolated antibody or its fragment which binds to a polypeptide, which is prepared by immunizing a host animal with a composition comprising the polypeptide or its antigen binding fragment and collecting cells from the host expressing antibodies against

ö

Gaps

. 0

Query Match 92.1%; Score 2468; DB 9; Length 506; Best Local Similarity 100.0%; Pred. No. 1.2e-239; Matches 467; Conservative 0; Mismatches 0; Indels (

Sequence 506 AA;

qene in

This sequence represents a murine cancer-associated protein of

THIS PAGE BLANK (USPTO)

	Ltd.
1 5.1.7	Biocceleration
version	- 2006
enCore	1993
Ģ	ပ
	Copyright

_
mode
8 ₹
using
search,
protein
1
protein
δ

Run on:

February 23, 2006, 12:40:25; Search time 26 Seconds (without alignments) 1883.628 Million cell updates/sec

US-08-765-108-8 2681 Title: Perfect score:

1 MGGSSRARWVALGLGALGLL......YSESLMSPAAKGTVLQEAKL 509 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 80:\* Database

1: Pirl:\* 2: pir2:\* 3: pir3:\* 4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

	Description	scavenger receptor	scavenger receptor	membrane glycoprot	lysosomal integral	85K lysosomal memb	lysosomal membrane	cell adhesion rece	CD36 antigen - mou	fatty acid binding	epithelial membran	D-CD36 protein - f	hypothetical prote	sensory neuron mem	hypothetical prote	hypothetical prote	hypothetical prote			н	cytochrome-c oxida	hypothetical prote		ரு	helicase - fission	hypothetical prote	PTS system mannose	PTS system mannose	hypothetical prote	urea carboxylase (
SUMMARIES	a	JC5533	A53920	A48528	A56525	JH0241	JC5670	A54870	I49590	A47402	838957	S43137	T27054	A59259	T24000	T20763	T20537	T27424	T15396	T50113	E70488	B95192	T05898	T18220	T38489	G98058	AC1087	AB1451	AE1551	846082
	DB	7	-		н	н	7	-	~	-	-	-	7	~	~	~	~	7	7	~	~	~	~	~	7	7	~	~	~	~
	Length	529	509	509	478	478	478	472	472	472	519	457	534	525	536	531	290	552	562	1573	592	924	1003	1026	570	924	303	303	273	1835
æ	Query	92.7	91.3	81.8	27.7	27.4	27.3	25.3	24.7	24.1	23.6	21.9	18.3	17.6	15.0	14.7	14.1	13.6	12.9	4.3	9.8	3.9	3.9	3.8	3.7	3.7	3.7	3.7	3.6	3.6
	Score	2484	2447	2192	742.5	734	732	677	662	645	633	587	490.5	472	401	393	379	363.5	345	115.5	105.5	104.5	104	101.5	99.2	99.5	. 98	96	96.5	96.5
	Result No.	Ţ	8	m	4	S	9	7	œ	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	. 92	27	28	53

secretory protein	probable nuclear m	spaP protein - Sal	spaP protein - Sal	copper-transportin	LPS biosynthesis R	coagulation factor	hypothetical prote	hypothetical prote	probable membrane	capsid polyprotein	internalin protein	hypothetical prote	probable integral	probable membrane	hypothetical prote
AF0851	T39765	T11207	837308	D90468	H69158	KFB05	C89875	T32221	S64800	T03726	AC1139	S74347	C87232	T44869	F91067
~	~	~	N	N	N	-	~	0	7	7	~	7	7	7	7
224	955	224	224	695	411	2211	366	670	1661	901	605	398	427	448	543
3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4
96	96	95	95	95	94.5	94.5	94	94	94	93	92.5	92	92	92	95
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

## ALIGNMENTS

JG5533 JG5533 JG5533 Gavenger receptor class B type I precursor - rat G;Species: Rattus norvegicus (Norway rat) G;Date: 02-Sep-1997 #sequence_revision 05-Sep-1997 #text_change 09-Jul-2004 G;Accession: JG5533 R;Mizutani, T.; Sonoda, Y.; Minegishi, T.; Wakabayashi, K.; Miyamoto, K. Biochem. Biophys. Res. Commun. 234, 499-505, 1997 A;Title: Cloning, characterization, and cellular distribution of rat scavenger receptor A;Reference number: JG533; MUID:97320450; PMID:9177301 A;Residues: 1-59 cMIZ- A;Residues: 1-59 cMIZ- A;Residues: 1-59 cMIZ- A;Residues: 1-59 cMIZ- A;Comment: This protein is a specific receptor for high density lipoprotein. It plays a C;Comment: This protein is a specific receptor. C;Comment: This protein is a specific receptor. C;Goment: This protein is a specific receptor for high density lipoprotein. It plays a C;Goment: Sibi
---

Gaps 20; Length 529; Indels 92.7%; Score 2484; DB 2; 88.8%; Pred. No. 2.8e-188; 23; Mismatches 470; Conservative Query Match Best Local Similarity Matches 470; Conserv

ï

61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120 61 VPFYLSVYFFEVVNPSEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR 120 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180 181 WGYEDPFVNFLSKYFPDMFPIKGKFGLFVGMNDSSSGVFTVFTGVQNFSKIHLVDKWNGL 240 9 1 MGVSSRARWVALGLGGVLGLLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 121 셤 ò g 쉽 ઠે g 8

SKIDYWHSBQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300 241 SEVNYWHSEQCNMINGTAGQMWAPFWIPESSLEFFSPBACRSMKLTYQESRVFEGIPTYR 300 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360 241 301 g ò ઠે

------LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGI 400

361

g &

용

유 ò 셤

ઠે

```
A; Map position: 12pter-12qter
C; Superfamily: 1yeosomal integral membrane protein II
C; Superfamily: 1yeosomal integral membrane protein II
C; Superfamily: 1yeosomal integral membrane grad amino end; glycoprotein; lipoprotein; myristylt
C; Superfamily: 1yeosomal integral cIA-1, long splice form #status predicted < CIMAT>
F; 2-42,143-509/Product: membrane glycoprotein CIA-1, short splice form #status predicted < F; 2-48 [Domain: intracellular #status predicted < CIMI>
F; 3-442/Domain: extracellular #status predicted < TMI>
F; 443-644/Domain: transmembrane #status predicted < TMI>
F; 443-644/Domain: intracellular #status predicted < CYT2>
F; 45-509/Domain: intracellular #status predicted < CYT2>
F; 45-509/Domain: intracellular #status predicted < CYT2>
F; 47-65-509/Domain: intracellular #status predicted < CYT2>
F; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL: Z22555; NID: 9397606; PIDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: mRNA
A;Rosidues: 1-42,143-509 cCAL>
A;Ross-references: UNIPARC:UDI0000174241; GB:Z22555
A;Note: this sequence report represents the short form; the long form was also sequenced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 IPPYLSVYPPDVMNPSEILKGEKPQVRERCPYVYRESRHKSNITPNNNDTVSFLEYRTPQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 PQPSKSHGSESDYIVMPNILVLGAAVVMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIM 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 WGYKDPLVNLINKYFPGMFPPKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SKIDYWHSEQCNMINGTSGQMWADFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 SKVDFWHSDQCNMINGTSGQMWPPFWTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       membrane glycoprotein CLA-1 protein long form precursor - human N;Alternate names: CD36 and LIMP-II analogous-1 (CLA-1) N;Contains: membrane glycoprotein CLA-1, short splice form C;Species: Hono sapiens (man) C;Species: Hono sapiens (man) C;Date: 07-Apr-1994 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004 C;Accession: S36656; A48528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGCSAKARWAAGALGVAGLCAVLGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Reference number: $36656
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
A;Accession: $1650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 81.8%; Score 2192; DB 1;
Best Local Similarity 79.4%; Pred. No. 3.1e-165;
Matches 404; Conservative 49; Mismatches 56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Vega, M.
submitted to the BMBL Data Library, April 1993
                                                                                                                                                481 SODKEAIOAYSESLMSPAAKGTVLOEAKL
                                                                           SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Gene: GDB:CD36L1
A;Cross-references: GDB:228074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Accession: A48528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           핁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: UNIPROT:Q60417; UNIPARC:UP100000E7766; GB:U11453; NID:g562021; PIDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A,Description: mediates the endocytosis of modified lipoprotiens such as oxidized or C;Superfamily: lysosomal integral membrane protein II
C;Superds glycoprotein, transmembrane protein
F;2-8/Domain: intracellular #status predicted <CYII>
F;3-8/Domain: transmembrane #status predicted <CYII>
F;3-4/Agl/Domain: transmembrane #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predicted <CYII>
F;3-4/Agl/Domain: extracellular #status predi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    scavenger receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLKSQEKCFLFWSGSKKG 480
                                                                           420
                                                                                                                                                                                                   460
                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NyAlternate names: CD3-related class B scavenger receptor C; Species: Cricetulus griseus (Chinese hamster)
C; Date: 28-Jul-1995 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
C; Accession: A53920
R; Acton, S.L.; Scherer P.E.; Lodish, H.F.; Krieger, M.
J. Biol. Cham. 269, 21003-21009, 1994
A; Fitle: Expression cloning of SR-Bi a CD36-related class B scavenger receptor an expression cloning of SR-Bi and SP-Bi and SP
LINPOPKEHSLFLDIHPVTGILNPDPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKVNYWHSEQCNMINGTSGQMWAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GOTGKIEPVVLPLLWPEQSGAMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPI
                                                                                                                                                                                                                                                                        421 GQTGKIEPVVLPLLWPEQSGMMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNI TFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WGYDDPFVHFLATYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              °,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 IYQLRSQEKCFLFWSGSKKGSQDKRAMQAYSESLMSPAAKGTVLQEAKL 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P;443-464/Domain: transmembrane #status predicted <TM2>
F;465-509/Domain: intracellular #status predicted <CYT2>
F;102,108,173,212,227,255,310,330/Binding site: carbohydrate (Asn)
                                                                                                                                                                                                                                                                                                                                                                                                                                           ICOLRSOEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLOEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                91.3%; Score 2447; DB 1;
ilarity 89.0%; Pred. No. 2.3e-185;
Conservative 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - Chinese hamster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    scavenger receptor SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A, Residues: 1-509 <ACT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Accession: A53920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       453;
                                                                           361
                                                                                                                                                                                            401
                                                                                                                                                                                                                                                                                                                                                                                                                                           461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C; Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
```

a ઠે ď

ઠે

g

8

유

δ

셤

ò

g ठे 요

δ

8 8

ö

9 9

oŧ

member

셤 ઠે

ઠે 셤 셤

ठ

```
NiAlternate names: 74k lyeosomal membrane protein LIMP
C;Species: Rattus norvegicus (Norway rat)
C;Species: Rattus norvegicus (Norway rat)
C;Accession: J0241; Ph0212; A41180
R;Fujita, H.; Ezaki, J.; Noguchi, Y.; Kono, A.; Himeno, M.; Kato, K.
Biochem. Biochem. Biochem. 1890phs. Res. Commun. 178, 444-452, 1991
A;Title: Isolation and sequencing of a cDNA chone encoding 85KDa sialoglycoprotein in rat A;Reference number: J0241; MUID:91315465; PMID:1859403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; cross references: UNIPROT:P27615; UNIPARC:UP10000167995; GB:D10587; GB:D90532; NID:9220 A; Note: the authors translated the codon CCT for residue 59 as Lys, TAT for residue 278 a A; Accession: PH0212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: UNIPARC:UP10000167995; GB:M68965; NID:g205206; PIDN:AAA41531.1; PID:g
NyNote: parts of this sequence, including the amino end of the mature protein, were confi
R;Sandoval, I.V.; Arredondo, J.; Alcalde, J.; Noriega, A.G.; Vandekerckhove, J.; Jiment
J. Bioll. Chem. 269, 6622-6631, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1;Vega, M.A.; Segui-Real, B.; Garcia, J.A.; Cales, C.; Rodriguez, F.; Vanderkerckhove, J. J. Biol. Chem. 266, 16818-16824, 1991
A;Title: Cloning, sequencing, and expression of a cDNA encoding rat LIMP II, a novel 74-3;Reference number: A41180; MUID:91358482; PMID:1715871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Title: The residues Leu(Ile) (475)-Ile(Leu, Val, Ala) (476), contained in the extended ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F;433-458/Domain: transmembrane #status predicted <TR2>
F;459-478/Domain: intracellular #status predicted <CYT2>
F;459-478/Region: endosomal/1ysosomal sorting signal
F;45,68,105,122,206,224,249,3325,412,430/Binding site: carbohydrate (Asn) (covalent) #
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Molecule type: protein
A;Residues: 2-9;49-67;116-121;228-234;283-294;355-373 <FU2>
A;Cross-references: UNIPARC:UP1000017423B; UNIPARC:UP1000017423C; UNIPARC:UP1000017423D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C.Superfamily: 1790somal integral membrane protein II
C;Keywords: glycoprotein; transmembrane protein
F;2-478/Product: 85K lysosomal membrane sialoglycoprotein #status experimental <MAT>
                                                                                                                                                                                                                               130 IDLIRTLNIPVL--TVIEWSQVHFLREIIEAMLKAYQQKLFVTHTVDELLWGYKDEILSL 187
                                                                                                                                                                                     LNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQ 250
                                                                                                                                                                                                                                                                                                                        CUMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFAN 310
                                                                                                                                                                                                                                                                                                                                                               CMMINGTDGDSFHPLITXDEVLYVPPSDFCRSVYITPSDYESVQGLPAFRYKVPAEILAN 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                               311 GSVYPPNEGFC----PCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPNPK 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TS---DNAGFCIPEGNCLGSGVLNVSICKNGAPIIMSFPHFYQADERFVSAIEGMHPNQE 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  367 EHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKP 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          427 LSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKGSQDK 484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----FTWLACKGQGSMDE 466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Domain: lysosomal lumenal #status predicted <LYS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Reference number: A57905; MUID: 94165051; PMID: 7509809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;4-26/Domain: transmembrane #status predicted <TR1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2-3/Domain: intracellular #status predicted <CYTI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 85K lysosomal membrane sialoglycoprotein - rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Contents: annotation; sorting signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            v;Experimental source: liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A, Molecule type: mRNA
A, Residues: 1-478 <FUJ>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Residues: 1-478 < VEG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Accession: A41180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: JH0241
                                                                                                                                                                                                                                                     188
                                                                                                                                                                                                                                                                                                                        251
                                                                                                                                                                                                                                                                                                                                                                                            245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   305
                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                 8 8
                                                                                                                                                            ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                   .∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene family: cellular distributid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           вiа
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Molecule type: mRNA
1;Residues: 1-83, E',85-478 <FUJ>
1;Cross-references: UNIPARC:UPI0000032D38; GB:D12676; NID:g219702; PIDN:BAA02177.1; PID:
1;Cross-references: UNIPARC:UPI000003D38; GB:D12676; NID:g219702; PIDN:BAA02177.1; PID:
1;Sandoval, I.V.; Arredondo, J.J.; Alcalde, J.; Noriega, A.G.; Vandekerckhove, J.; Jimen
1;Biol. Chem. 269, 6622-6631, 1994
1;Title: The residues Leu(Ile) (475)-Ile(Leu, Val, Ala) (476), contained in the extended c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F;475-476/Region: endosomal/lysosomal sorting signal
F;45,68,105,206,224,249,304,325,412,430/Binding site: carbohydrate (Asn) (covalent) #sta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fujita, H.; Takata, Y.; Kono, A.; Tanaka, Y.; Takahashi, T.; Himeno, M.; Kato, K. iochem. Biophys. Res. Commun. 184, 604-611, 1992
; Title: Isolation and sequencing of a cDNA clone encoding the 85KDa human lysosomal Reference number: JQ1523; MUID:92246940; PMID:1374238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Map position: 4pter-4qter;

Superfamily: lysosomal integral membrane protein II

;Keywords: glycoprotein; lysosome; transmembrane protein

;2-378 Product: lysosomal membrane 85K sialoglycoprotein #status predicted <LYS>

;2-3/Domain: intracellular #status predicted <CYTI>

;4-26/Domain: transmembrane #status predicted <IRI>

;27-432/Domain: lysosomal lumenal #status predicted <LLUM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6
FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLABAVTG 360
                                                                                                                                                     LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                     AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDN-DTVSFVENRSLHFQPDKSHGS-E 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nythernate names 'LIMP' II, human
Nythernate names 'LIMP' II, lygosomal membrane 85K sialoglycoprotein
Nythernate names 'LIMP' II, lygosomal membrane 85K sialoglycoprotein
C;Species: Homo sapiens (man)
C;Date: 19-Oct-1995 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
C;Accession: A56525; Jule 123
A;Riclaryo, D; Dopazo, J; Vega, M.A.
Genomics 25, 100-106, 1995
A;Title: The CD36, CLA-1 (CD36L1), and LIMPII (CD36L2) gene family: cellular
A;Reference number: A56525; MUID:95293360; PMID:7539776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GALGLIFAALGVVMIL--MVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 478;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ross-references: UNIPROT:014108; UNIPARC:UPI000017423A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      433-458/Domain: transmembrane #status predicted <TR2>459-478/Domain: intracellular #status predicted <CYT2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Reference number: A57905; MUID:94165051; PMID:7509809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27.7%; Score 742.5; DB 1;
llarity 32.6%; Pred. No. 8.9e-51;
Conservative 103; Mismatches 190;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Status: not compared with conceptual translation Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                            SKDKEAIQAYSESLMTSAPKGSVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                        SQDKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;Contents: annotation; sorting signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cross-references: GDB:383649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 156; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Residues: 1-478 <CAL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genetics:
Gene: GDB:CD36L2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Molecule type:
                                          301
                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                                                                                                                                                    181
```

g ઠે a

ઠ

```
A; Molecule type: mRNA
A; Residues: 1-373, 'Q', 375-472 < TAX>
A; Residues: 1-373, 'Q', 375-472 < TAX>
A; Residues: 1-373, 'Q', 375-472 < TAX>
A; Residues: 1-373, 'Q', 375-472 < TAX>
A; Residues: 1-373, 'Q', 375-472 < TAX>
A; Note: the authors translated the codon CAC for residue 242 as Asn and CAA for residue: R; Oquendo, P.; Hundt, E.; Lawler, J.; Seed, B.
Cell 58, 95-101, 1989
A; Title: CD36 directly mediates cytoadherence of plasmodium falciparum parasitized erythn A; Reference number: A30989; MUID:89324065; PMID:2473841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Molecule type: mRNA
A;Residues: 1-472 <0005
A;Cross-references: UNIPARC:UPI0000000091; GB:M24795; NID:g178670; PIDN:AAA35534.1; PID:
K;Fernandez-Ruiz, E; Armesilla, A.L.; Sanchez-Madrid, F.; Vega, M.A.
Genomics 17, 759-761, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AjMolecule type: DNA
Miseldues: 1-472-ARN-
Miseldues: 1-47-ARN-
Miseldue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Title: Gene encoding the collagen type I and thrombospondin receptor CD36 is located A;Reference number: A47534; MUID:94063924; PMID:7503937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Residues: 144-203 < FER>
A; Cross-references: UNIPARC:UPI0000004E9; EMBL:Z22924; NID:g397604; PIDN:CAA80504.1;
A; Cross-references: UNIPARC:UPI00000004E9; EMBL:Z22924; NID:g397604; PIDN:CAA80504.1;
A; Note: sequence extracted from NCBI backbone (NCBIP:139701)
B; Tandon, N.N.; Lipsky, R.H.; Burgess, W.H.; Jamieson, G.A.
J. Biol. Chem. 264, 7570-7575, 1989
A; Title: Isolation and characterization of platelet glycoprotein IV (CD36).
A; Reference number: A33357; MUID:89214205; PMID:2468669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                           311 GSVYPPNEGFC----PCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPNPK 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       427 LSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCFLFWSGSKKGSQDKEA 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : :: |: |: |: |: |: | 421 TANQLKSVINTTLVVTNIPYIIMALGVEFGLVFTWILACRGQ------GSMDEGTADERA 473
         191 LNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQ 250
                                                         188 VHIFKPDVSP---NFGLFYERNGTNDGEYVFLIGEDNYLNFSKIVEWNGKTSLDWWTTDT
                                                                                                                                                                                                                                          245 CNMINGTDGDSFHPLISKDEVLYLFPSDLCRSVHITFSSFENVEGLPAFRYKVPAEILAN
                                                                                                                                                                                                                                                                                                                                                                                                                                305 TS---ENAGFCIPEGNCMDSGVLNISICKNGAPIIMSFPHFYQADEKFVSAIKGMHPNKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     362 EHESFVDINPLTGIILRGAKRFQINTYVRKLDDFVETGDIRTMVFPVMYLNES-VLIDKE
                                                                                                                                                                                          CNMINGTSGOMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 367 EHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: DNA
A;Residues: 1-40 <TA2>
A;Cross-references: UNIPARC:UPI00006EB56; GB:L06849
A;Accession: JC2016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Molecule type: protein
A;Residues: 2,'X',4-6,'X',8-32,'PX',35-36,'F' <TAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Accession: A47534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Accession: A54870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Accession: A33357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Accession: JC2017
                                                                                                                                                                                          251
                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                          ద
                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule Lype: mRNA
A; Residues: 1-478 -TAB.
A; Residues: 1-478 -TAB.
A; Croment: This protein is involved in sequestration of particular cytoplasmic proteins
C; Comment: This protein is involved in sequestration of particular cytoplasmic proteins
C; Superfamily: lysosomal integral membrane protein II
F;1-26/Domain: signal sequence #status predicted <SIG>
F;433-458/Domain: transmembrane #status predicted <SIG>
F;474-475/Region: endosomal/lysosomal sorting signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Accession: JCS670
R;Tabuchi, N.; Akasaki, K.; Sasaki, T.; Kanda, N.; Tsuji, H.
S. Biochem. 122, 756-763, 1997
A;Title: Identification and characterization of a major lysosomal membrane glycoprotein,
A;Reference number: JCS670; MUID:98060500; PMID:9399579
                                                                                               ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :: :: |:: |:: | TASQLKSVINTTLIVINIPYIIMALGVFFGLIFTWLACRGQ------GSTDEGTADERA 473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TNPEEILQGEIPLLEEVGPYTYRELRNKANIQFGENGTTISAVTNKAYVFERNQSVGDPN 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      131
                                                                                                                                                                                                                                                                                                                                                                                                                                TNPEEILQGEIPLLEEVGPYTYRELRNKANVQFGENGTTISAVTNKAYIFERNQSVGDPT 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     305 SS---ENAGFCIPEGNCMDAGVLNVSICKNGAPIIMSFPHFYQADEKFVSAIKGMRPNKE 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              367 EHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKP 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   362 EHESFVDINPLTGIILRGAKRRQINTYVKKLDDFVETGNIRTMVFPVMYLNES-VLIDKE 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 73 VNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDN-DTVSFVENRSLHFQPDKSHGSES 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -DYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEILWGYDDPFVHF 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            132 -DYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEILWGYDDPFVHF 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQ 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFAN 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |||||||| | : | : : : | | : ||| : ||| | CIMINGTDGDSFHPLISKDETLYIFPSDFCRSVYITFSSFENVEGLPAFRYKVPAEILAN 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GSVYPPNEGFC----PCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPNPK 366
                                                                                                                                                                                          72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               69
                                                                                                                                                                                                                                                                                69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        lysosomal membrane 85K glycoprotein precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 20-Nov-1997 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ::: | | : | | | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | | : | : | | : | : | | : | : | | : | : | | : | : | | : | | : | : | | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              73 VNPNEVLNGOKPVVRERGPYVYREFROKVNITFNDN-DTVSFVENRSLHFQPDKSHGSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQBKCFLFWSGSKKGSQDKEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GALGLLFAALGVVMIL---MVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEV
                                                                                                                                                                                          GALGLLFAALGVVMIL---MVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24; Gaps
                                                                                               24;
         Length 478;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2; Length 478;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 27.3%; Score 732; DB 2; Length 47 Best Local Similarity 32.1%; Pred. No. 6e-50; Matches 154; Conservative 103; Mismatches 199; Indels
                                                                                          Indels
                                                                                      Matches 152; Conservative 106; Mismatches 198;
27.4%; Score 734; DB 1; 31.7%; Pred. No. 4.2e-50;
                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Accession: JC5670
                                                                                                                                                                                          12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      132
Query Match
                                               Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

ö

μ

```
A; Molecule type: mRNA
A; Residues: 1-472 < RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C;Accession: I49590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Accession: 149590
                                                                                                                                                                                                                                                                                                                                                                                                                                                  366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    425
                              191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CD36 antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               149590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                         ર્જ
                                                                                                                                                                  g
                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ર્જ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ဌ
                                                                                                                                                     ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;Molecule type: mRNA;
Residues: 1-43, R', 45-237, D', 238-472 <RES>
;Cross-references: UNIPARC:UP10000168403; GB:S67532; NID:g456912; PIDN:AAD13993.1; PID:
;Tany X.; Taylor, K.T.; Sobleski, D.A.; Medved, B.S.; Lipsky, R.H.
Biol. Chem. 269, 6011-6015, 1994
;Title: Identification of a human CD36 isoform produced by exon skipping. Conservation
;Reference number: A53212; MUID:94164961; PMID:7509795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Residues: 1-40,144-169, ILNSLINKSKSSM',170-185 <TA3>
Cross-references: UNIPARC:UPI0000174245; GB:L06849
Comment: This protein mediates the interaction of platelets with collagen and thrombos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cross-references: GDB:138800; OMIM:173510

Map position: 7q11.2-7q11.2

Introns: 40.73; 94/2; 143/3; 185/2

Superfamily: lysosomal integral membrane protein II

Seywords: alternative splicing; blocked amino end; cell adhesion; glycoprotein; lipopr 2-472/Product: cell adhesion receptor CD36 #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       F;440-466/Domain: transmembrane #status predicted <TM2>
F;440-456/Domain: transmembrane #status predicted <TM2>
F;470-472/Domain: intracellular #status predicted <CYT2>
F;470-461/Fied site: myristylated amino end (Gly) (in matura form) #status predicted
F;37,464,466/Binding site: palmitate (Cys) (covalent) #status predicted
F;79,102,134,163,205,220,235,247,417/Binding site: carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Molecule type: protein ;Molecule type: protein ;Residues: 'XX',4,'X',6,'X',8-30 <GRE>;Cross-references: UNIPARC:UP10000174244
;Experimental source: Milk fat globule membrane, lactating mammary tissue epithelial c;Wyler, B.; Daviet, L.; Bortkiewicz, H.; Bordet, J.C.; McGregor, J.L. hromb. Haemost. 70, 500-505, 1993 ... Title: Cloning of the cDNA encoding human platelet CD36: comparison to PCR amplified ;Reference number: 159613; MUID:94082337; PMID:750S064
Cross-references: UNIPARC:UPI0000174242
Catimel, B.; Parmentier, S.; Leung, L.L.; McGregor, J.L.
cochem. J. 279, 419-425, 1991
Title: Separation of important new platelet glycoproteins (GPIa, GPIc, GPIc*, GPIIa :
Reference number: A56793; MUID:92061944; PMID:1953640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKMNGLSKIDYWHSEQCN 252
                                                                                                                                                                                                                                                                                                                                                                                                                            Greenwalt, D.E.; Watt, K.W.K.; So, O.Y.; Jiwani, N.
iochemistry 29, 7054-7059, 1990
;Title: PAS IV, an integral membrane protein of mammary epithelial cells, is
facession: A35577; MUID:91027734; PMID:1699598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EVMMNSSNÍQVKORGPYTYRVRFLAKENVTQDAEDNTVSFLQPNGAIFEPSLSVGTEADN 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      134 IVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRA-FMNRTVGEILWGYDDPFVHFLN 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :| : | | ::: : | | :: : | | : : :| | : : :| | : | : | : | | : : : | | : | : | | : | | : | : | | : | : | | : | | : | : | | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : : | : | : | : | : | : | : | : | : | : | : | : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EV-LNGQKPVVRERGPYVYR-EFRQKVNITFN-DNDTVSFVENRSLHFQPDKSHGSESDY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25.3%; Score 677; DB 1; Length 472; 31.6%; Pred. No. 1.3e-45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity 31.6%; Pred. No. 1.3e-45;
Matches 147; Conservative 104; Mismatches 190; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  --
--
--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2-6/Domain: intracellular #status predicted <CYTI>7-30/Domain: transmembrane #status predicted <TMI>31-439/Domain: extracellular #status predicted <EXT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ---
                                                                                                                                                                                                                                                              Molecule type: protein
Residues: 2,'X',4-6,'X',8-23 <CAT>
Cross-references: UNIPARC:UP10000174243
                                                                                                                                                                                                                                                                                                                                                                                                  Experimental source: platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Accession: 159613
                                                                                                                                                                                                                               Accession: D56793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Accession: A53212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gene: GDB:CD36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

ð

```
A;Cross-references: UNIPROT:Q08857; UNIPARC:UP10000018D7; GB:L23108; NID:g567198; PIDN:?
C;Superfamily: lysosomal integral membrane protein II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Endemann, G.; Stanton, L.W.; Madden, K.S.; Bryant, C.M.; White, R.T.; Protter, A.A. D. 18.01. Chem. 268, 11811-11816, 1993
A;Title: CD36 is a receptor for oxidized low density lipoprotein.
A;Reference number: 149590; MUID:93280144; PMID:7685021
                                                                                                                     305 QNPDNHCRCTEKVISNNCTSYGVLDIGKCKEGKPVXISLPHFLHASPDVSEPIEGLHPNE 364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           424
----PYPVTTTVGLFYPYNNTADGVYKVFNGKDNISKVAIIDTYKGKRNLSYWES-HCD 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                245 MINGIDAASFPPFVEKSRILRFFSSDICRSIYAVFGSEIDLKGIPVYRFVLPANAFASPL 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 365 DEHRTYLDVEPITGFTLQFAXRLQVNILVXPARKIEALKNIKRPYIVPILMINETGTIGD 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                      366 KEHSLPLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIE-PVVLPLLWPEQSGAMGG
                                                                253 MINGTSGOMWAPFWIPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGS
                                                                                                                                                                                                            313 VYPPNEGFCP-----CRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPNP
                                                                                                                                                                                                                                                                                                                                                                KEHSLFLDIHPVTGI PMNCSVKMQLSLYIKSVKGI GQTGKI E - PVVLPLLWFEQSGAMGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                77 EVL-NGOKPVVRERGPYVYR-EFROKVNITFNDND-TVSFVENRSLHFOPDKSHGSESDY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        75 DVAKNSSKIKVKORGPYTYRVRYLAKENITQDPEDHTVSFVQPNGAIFBPSLSVGTEDDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            134 IVLPNILVLGGSILMESKPVSLKLAMMTLALVTMGQRA-FMNRTVGEILWGYDDPFVHFLN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        253 MINGTSGOMMAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            313 VYPPNEGFCP-----CRESGIQNVSTCRFGAPLFLSHPHFYNADFVLSEAVLGLNPNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17 LGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  425 KPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPII -- CQLRSQ 467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : | | | : : | | : : | : : : | EKAEMFKITQVIGKIKILGMVEMALLGIGVVMFVAFMISYCACKSK 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           425 KPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPII--CQLRSQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
24.7%; Score 662; DB 2; I
Best Local Similarity 30.5%; Pred. No. 2e-44;
Matches 142; Conservative 104; Mismatches 195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Status: preliminary; translated from GB/EMBL/DDBJ
```

```
D-CD36 protein - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Species: Drosophila melanogaster
C;Accession: S43137; S43136
R;Franc, N.; Dimarcq, J.; Hoffmann, J.; Lagueux, M.
submitted to the EMBL Data Library, March 1994
A;Bestription: D-CD36: a second Drosophila gene related to the CD36 family of cell adhes A;Reference number: S43136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Cross-references: UNIPROT: Q27367; UNIPARC: UPI000016BB39; EMBL: Z31583; NID: 9468537; PIDN
Cross-references: UNIPROT:Q24336; UNIPARC:UPI00000774AD; EMBL:X73332; NID:g429163; PIDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               251 RTHLPHWTTDACNTLAGTDGSIFPPHIDHDRILHVYDKDLCRLLPLVFEKEVMTSNEVPG 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              369 SLRIQVEGISPPMKEKHQFFFDVQPKMGTTLRVRARIQINLAVSQVFDIKQVANFPDIIF 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63 FYLSVYFFEVVNPNEVL-NGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLHF 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGORAFWNRTVGEILW 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    299 YRFTAPDTLFANGSVYPPNE-----GFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  353 VLSEAVLGLNPNPKE-HSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLIMPEQSGAMGGKPLSTFYTQLV----LMPQVLHYAQYV-LLGLGGLLLLVPIICQLR-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240 LSKIDYWHSEQCHMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTY-NESRVFEGIPT
                                                                                                                                                                                                                                                                                                                                                                                                     18 RKWWITI-----VVAAALIIGGIVVACEFTVLIDAVVDRMVALRPGAKTFGWWAKPPVE
                                                                                                                                                                                                                                                                                                                                                                         6 RARWVALGLGALGLLFAAL - - GVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   182 GYDDPFVHFLNTYLP--DMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNG
                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                           44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21.9%; Score 587; .DB 1; Length 457;
                                                                                                                                                                                                                                                                           Length 519;
                                                                                                                                                                                                                                                                           23.6%; Score 633; DB 1; Length 51. 31.5%; Pred. No. 4.5e-42; ative 92; Mismatches 214; Indels
                                                A;Gone: FlyBase:emp
A;Cross-references: PlyBase:FBGN0010435
C;Superfamily: lysosomal integral membrane protein II
C;Keywords: transmembrane protein
F;2-19/Domain: intracellular #status predicted <CYTI>F;20-39/Domain: transmembrane #status predicted <TMI>F;46-482/Domain: transmembrane #status predicted <TMI>F;483-519/Domain: intracellular #status predicted <TMI>F;483-519/Domain: intracellular #status predicted <CYT2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Gene: FlyBase:croquemort
A;Cross-references: FlyBase:FBgn0015924
C;Superfamily: lysosomal integral membrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  485 SHRQSTLHLEGSNYLATAQVDMNKKQNKDNQ 515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 466 SOEKCFLFWSGS------KKGSODKE 485
                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A,Status: preliminary
A,Molecule type: mRNA
A,Residues: 1-457 <FRA>
                                                                                                                                                                                                                                                                                                                             Matches 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                         F;7-30/Domain: transmembrane #status predicted <TM1>
F;7-30/Domain: transmembrane #status predicted <TM3>
F;440-466/Domain: transmembrane #status predicted <TM2>
F;440-466/Domain: transmembrane #status predicted <TM2>
F;470-473/Domain: intracellular #status predicted <CTT2>
F;79,102,134,205,220,235,247,417/Binding site: carbohydrate (Asn) (covalent) #status pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                           or transport
                                                                                                                                                                                                                                                                                                       Residues: 1-472 <ABU>
Cross-references: UNIPROT:Q07969; UNIPARC:UPI0000155E68; GB:L19658; NID:g310112; PIDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              epithelial membrane protein - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Species: Drosophila melanogaster
C;Date: 07-06C-1994 #sequence_revision 12-Apr-i996 #text_change 09-Jul-2004
C;Accession: S38957
R;Hart, K.; Wilcox, M.
J. Mol. Biol. 234, 249-253, 1993
A;Title: A Drosophila gene encoding an epithelial membrane protein with homology to CA;Reference number: S38957; MUID:94047068; PMID:7693949
A;Accession: S38957
A;Molecule type: mRNA
A;Residues: 1-519 <AHAR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----GSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEI 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180 LWGYDDFFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNG 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RFTAPDTLFANGSVYPPNEGFCP-----CRESGIONVSTCRFGAPLFLSHPHFYNADP 352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       353 VLSEAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIE-PVVL 411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fatty acid binding/transport protein - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 19-May-1995 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
                                                                                                                                 C; Accession: A47402
R; Abbumrad, N.A.; Bl-Maghrabi, M.R.; Amri, B.Z.; Lopez, B.; Grimaldi, P.A.
J. Biol. Chem. 268, 17665-17668, 1993
A; Title: Cloning of a rat adipocyte membrane protein implicated in binding
A; Reference number: A47402; MUID:93352566; PMID:7688729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17 LGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EVL-NGQKPVVRERGPYVYR-EFRQKVNITFNDND-TVSFVENRSLHFQPDKSHGSESDY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240 LSKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PLIWFEQSGAMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPII --CQLRSQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24.1%; Score 645; DB 1; Length 47
30.3%; Pred. No. 4.4e-43;
tive 91; Mismatches 192; Indels
                                                                                                                                                                                                                                                                                                                                                         Superfamily: lysosomal integral membrane protein II
                                                                                                                                                                                                                                                                                                                                   A,Cross-releated.
C;Superfamily: lysosomal integral memorane protein
C;Reywords: glycoprotein; transmembrane protein
C;Reywords: glycoprotein; transmembrane #status predicted <CYII>F;2-6/Domain: intracellular #status predicted <TMI>F;2-6/Domain: transmembrane #status predicted <EXI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            134 IVLPNILVLG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 30.3*
Matches 145; Conservative
                                                                                                                                                                                                                                                         A; Accession: A47402
A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

239

```
sensory neuron membrane protein-1 - polyphemus moth C;Species: Antheraea polyphemus (polyphemus moth) C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004 C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004 C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004 C;Date: M.B.; Sun, M.; Lerner, M.R.; Vogt, R.G. J. Biol. Chem. 272, 14792-14799, 1997 A;Rogers, M.B.; Sun, M.; Lession protein of olfactory neurons of the silk moth Antheraes A;Reference number: A59259; MUID:97313452; PMID:9169446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:002351; UNIPARC:UPI000007FD51; GB:U95026; NID:g2149911; PIDN:
A;Experimental source: strain wild
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13;
               170 AFMANRIVGEILW-GYDDPFVHF----LNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFT 223
                                                 PYITVKVSDALPDGYBDPIIDIVCKNKILQFLCETNSLQRRVGFFYGQNGTTDGIYEVDA 244
                                                                                                                                                                    ---- PCR 324
                                                                                                                                                                                                                                                                                           ESGIONVSTCRFGAP-LFLSHPHFYNADPVLSEAVLGLN-PNPKEHSLFLDIHPVTGIPM 382
                                                                                                                                                                                                                                                                                                                                                                                                           363 PAGLIDLSKCQAGNPRVYLSNPHFYNSPMELMHSVTGLSVPTAGNDLTVVDIEPTAGVPT 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               383 NCSVKMQLSLYIKSVKG-IGQTGKIBPVVLPLLWFEQSGAMGGKPLSTFY-----TQLV 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LMPQVLHYA---QYVLLGLGGL----LLLLVPIICQLRSQEKCF---LFWSGSKKGSQDKE 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             71 EVVNPNEVLNGQKPVVRERGPYVYREFRQKVNI-TFNDNDTVSFVENRSLHFQPDKSHG- 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : | | | | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | | : | : | | : | : | | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : 
                                                                                                                                  GVQNFSRIHLVDKWNGLSKI--DYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | :||:|
7 LKYAAIGGGVFVFGILIGWVIFPVILKSQIKKEMALSKKTDLRQMWEKVPFALDFKVYIF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             129 -SESDYIVLPNILVLGGSILMESKPVSLKLAMTLALVTMGORAFMNRTVGEILWGYDDPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----PIKG-----KFGLFVGMNN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          214 S-NSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFMTPESSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  171 DVFLRVKAMDIMFRGIIINCDRTEFAPKAACTKMKKDAVTGVIYEPNNQFRFSLFGTRNN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19 LLFAALG------VVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  84; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
17.6%; Score 472; DB 2; Length 525;
Best Local Similarity 23.0%; Pred. No. 2.4e-29;
Matches 124; Conservative 107; Mismatches 224; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Status: preliminary; not compared with conceptual translation
                                                                                                                                                                                                                                                     SMKLTYNESRVFEGI PTYRFTAPDTLFANGSVYPPNEGFC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Gene: SNMP1
C;Superfamily: lysosomal integral membrane protein II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    188 VHFLNTYLPDML-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: mRNA
A; Residues: 1-525 < ROG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        486 AIQA 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                531 AVLA 534
                                                                                                                                                                                          245
                                                                                                                                                                                                                                                     282
                                                                                                                                                                                                                                                                                                                 305
                                                                                                                                                                                                                                                                                                                                                                            325
                                                                                                                                  224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genetics;
                                                                 셤
                                                                                                                                  Š
                                                                                                                                                                              ద
                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cross-references: UNIPROT:09XTT3; UNIPARC:UPI000083B4E; EMBL:298866; PIDN:CAB11566.1; Experimental source: clone Y49E10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      296
                                                                                                                                                                                                                PFYLSVYFFEVVNPNEVLNGO-KPVVRERGPYVYREFROKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                  297 PTYRFTAPDTLFANGSVYPPNEGFC-----PCRESGIONVSTCRFGAPLFLSHPHFYNA 350
                                                                                                                                                                                                                                                                                                                                   FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGE-I 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                      LWGYDDPFVHFLNTYLPDMLPIKGK-FGLFVGMNNS--NSGVFTVFTGVQNFSRIHLVDK 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DPVLSEAVLGLNPNPKEHSLPLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVV 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Y---LSVYFFEVVNPNEVL-NGOKPVVRERGPYVYREFROKVNITFNDNDTVSFVENRSL 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -HPQPDKS----HGSESDYIVLPNILVLGGSILMESKPVS----LKLMMTLALVTMGQR 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                  7 GETQRKVWV-FGLGSVFLL---LGILIVVFWPGIADNLVBDGLTLKPGTDAYESWLEAPI 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nypothetical protein Y49E10.20 - Caenorhabditis elegans
.Species: Caenorhabditis elegans
.Jate: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
.Accession: T27054
                                                                                             GGSSRARWVALGLGALGLLPAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WINGLSKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 534;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Map position: 3
Introns: 42/3; 105/2; 188/3; 231/3; 359/1; 440/2; 505/3
Superfamily: lysosomal integral membrane protein II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LGLLFAALGVVMILMVP--SLIKQQVLKNVRIDPSSLSF----
      Pred. No. 1.6e-38;
3; Mismatches 201;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
18.3%; Score 490.5; DB 2;
Best Local Similarity 27.0%; Pred. No. 8.3e-31;
Matches 147; Conservative 109; Mismatches 193;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Status: preliminary; translated from GB/EMBL/DDBJ
Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Barlow, K.
ubmitted to the EMBL Data Library, August 1997
teference number: Z20303
Accession: T27054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            411 LPLLWFEQ----SGAMGGKP 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ilarity 29.8%; Pr
Conservative 88;
Best Local Similarity
Matches 131; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Residues: 1-534 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gene: CESP:Y49E10.20
                                                                                                                                                                                                                62
                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             64
                                                                                                                                  g
                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
```

ò

ઠે

ઠે g

g ò g ઠે 요

ò

```
A;Cross-references: UNIPROT:Q19344; UNIPARC:UPI0000079B24; EMBL:Z54270; PIDN:CAA91027.1; A;Experimental source: clone F11C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :||:
278 HESKTVNSIPTYGFKVEDDSYDAIKNPGYRYENFEKVNYFPNWPCGLNHTKQNNGNCALV 337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             338 DCNQYDNFCNACCDGSHVNGTYVMPP--GMVPQRCLPGQMVPT-PFGA--ILSAPHFYGA 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DPVLSEAVLGLNPNPKEH--SLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEP 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 VPFYLSVYFFEVVNPNEVL-NGQKPVVRERGPYVYREFRQKVNITFNDNDT-VSFVENRS 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    62 AVQIWTEHLFUVTNPDEVLYYGATPNMLEIGPYTYTETEFKDFTQFRDNDNEIFYVNNKT 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   119 LHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGE 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Map position: X
A;Introns: 43/2; 97/2; 122/3; 150/2; 176/3; 219/2; 271/2; 314/3; 419/3; 444/2
                                                                                                                                                                                                                                                                                                                   hypothetical protein F11C1.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 31-Dec-2004
C;Accession: T20763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VVLPLLWPEQSGAMGG-KPLSTFYTQLVLMPQVLHYAQY------VLLGLGGGLLLLVPI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           179 ILWGYDDPFVHFLNTYL------PDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             288 NESRVFEGIPTYRFTAPDTLF------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ------ANGS-VYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            229 SRIHLVDKWNGLSKIDYWHSEQCNMINGT-SGQMWAPFWTPESSLEFFSPEACRSMKLTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 WVALGLGALGLLFAALGVVMILMVP----SLIKQQVLKNVRID---PSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                122 WVYDPTRS-------CEDCKLSDSVQFANTAYMVSGTVTAG-----GT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels 142;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 531;
                                                          426 PLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match
14.7%; Score 393; DB 2; L
Best Local Similarity 25.6%; Pred. No. 4.2e-23;
Matches 142; Conservative 73; Mismatches 197;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Characteries. S. submitted to the EMBL Data Library, September 1995 A;Reference number: 219321 A;Accession: T20763 A;Accession: T20763 A;Status: preliminary; translated from GB/EMBL/DDBJA;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            completed: February 23, 2006, 12:46:05
he : 28 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   497 IAVLLWGFCYFRSK 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Residues: 1-531 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Gene: CESP:F11C1.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Search cor
Job time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
              ઠે
                                                                                  ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-536 <WIL>
A;Residues: 1-536 <WIL>
A;Cross-references: UNIPROT:Q09606; UNIPARC:UPI000013BFF1; EMBL:Z48621; PIDN:CAA88547.1;
A;Experimental source: clone R07B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Map position: X
A;Introns: 39/3; 98/2; 148/3; 182/2; 205/3; 234/3; 284/1; 362/2; 393/1; 439/3; 464/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             225 VONFSRIHLVDKWNGLSKI--DYWHSEQCNMING-TSGOMWAPFMTPESSLEFFSPEACR 281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33 STCRFGA-----PL----PL-----PLSHPHFYNADPVLSEAVLGLNPNPK 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOCOKTANGTFLLPPGIFPLVCYPGHNAQPPFTVLVSPPHFLYSPPEVQHHLSGMNPDPE 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EHS-LFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGK 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -SESDYIVLPNILVLGGSILM----ESKPVSLKLMMTLALVTMGORAFMNRTVGEILW- 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       282 SMKLTYNESRVFEGIPTYRFTAP----DTLFANGSVY----PPNEGFCP--CRESGIQNV 331
                                                                                                                                                                                                                                                                                                                                                                                                                                                       329 QNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVKM 388
                                                                                                                                                                                                                                                                                           405
                                                                                                                                                                                                                                                                                                                                                                                       389 QLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPLSTFYTQLVLMPQVLHYAQYVL 448
         EFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGSVYPPNEGFC----PCRESGI 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein R07B1.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : | | : | : | : | | | | IAAPFFLSGLSMWIAFWPIFNSELRSNYKLGANDDGSLHYAAFLYANPPMKNVMKFNLFN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GYEDPLLSVAHSGIFISLVNFYGYGSQLNYIPEM----KTFAYLSGYNNSYDENYWINTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17 LGLLFAALGVVMILMVPSLIKQQVLKNVRI---DPSSLSFG--MWKEIPVPFYLSVYFFE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VVNPNEV-LNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVEN-RSLHF-QPDKSHG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GYDDP-----FVHFLN-----TYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTG
                                                                                                                                                                                                                                                   :: | |::| |::| |::| |: |:| |: |:| |: |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::| |::|
                                                                         : || : || | | : : ::|| | |: |
290 QSFSFDLCRSFKAWFQKKTSYKGIKTNRYIANVGDFAND---PELQCFCDTPDECLPKGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              76; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : | : : | : : | : : | ... : | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 449 LGLGGLLLLVPIICQLRSQEKCFLFWSGS-----KKGSQDKEAIQAYSESLMSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 15.0%; Score 401; DB 2; Length 530
Best Local Similarity 23.5%; Pred. No. 9.8e-24;
Matches 122; Conservative 111; Mismatches 211; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Korshaw, J. submitted to the EMBL Data Library, March 1995 submitted to the EMBL Data Library, March 1995 Afreference number: Z19828 Afrecession: T24000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Gene: CESP:R07B1.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Accession: T24000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
```

용

ð

셤 ઠે 요 ઠે 셤 ò 요 ò g ò 8 8

à

g

1 5.1.7	Biocceleration Ltd.
version	- 2006
GenCore	(c) 1993
	Copyright

OM protein - protein search, using sw model

February 23, 2006, 12:35:04; Search time 147.5 Seconds (without alignments) 2434.671 Million cell updates/sec Run on:

Title: US-08-765-108-8
Perfect score: 2681
Sequence: 1 MGGSSRARWVALGLGALGLL......YSESLMSPAAKGTVLQEAKL 509

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

2166443 seqs, 705528306 residues Searched:

2166443 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%.
Maximum Match 100%
Listing first 45 summaries

Database :

UniProt\_05.80:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Description	O61009 mus musculu	mus	P97943 rattus norv		088548 rattus norv	Q60417 cricetulus	Q6b4i7 rattus norv	Q8sqc1 sus scrofa	Q6t8f1 tupaia glis		018824 bos taurus	Q6wiw9 oryctolagus			-		Q7zyx0 brachydanio	Q4sj63 tetraodon n	Q64hw6 oncorhynchu	Q14108 homo sapien	Q53y63 homo sapien	P27615 rattus norv	O35114 mus musculu	Q5xh33 xenopus lae	Q8jgr8 brachydanio	Q7ztl6 xenopus lae	Q7q950 anopheles g		Q4sac1 tetraodon n	Q5bke5 rattus norv	Q8igy0 drosophila
QI	SCRB1 MOUSE	Q4FK30 MOUSE	SCRB1 RAT	Q6SR89 RAT	088548 RAT	SCRB1 CRIGR		SCRB1 PIG	Q6T8F1_TUPGB	Q52LZ5 HUMAN	SCRB1 BOVIN	Q6WIW9 RABIT	SCRB1 HUMAN	Q59FM4 HUMAN	Q6WIW8 RABIT	Q4S1T9_TETNG	Q7ZYX0_BRARE	Q4SJ63_TETNG	Q64HW6 ONCMY	SCRB2 HUMAN	Q53Y63_HUMAN	SCRB2 RAT	SCRB2_MOUSE	Q5XH33 XENLA	Q8JGR8_BRARE	Q7ZTL6 XENLA	Q7Q950 ANOGA	Q6DHC7_BRARE	Q4SAC1_TETNG	Q5BKE5_RAT	Q8IGY0_DROME
DB	-	~	н	~	~		~	-	~	~	-	~	Н	~	~	N	~	~	~	-	~	-	7	~	N	~	~	7	7	~	7
Length	509	509	509	509	509	509	206	509	509	509	509	509	552	581	501	460	457	2096	532	477	478	477	477	483	. 531	484	522	465	460	472	601
* Query Match	100.0	100.0	93.4	92.7	92.5	91.3	84.9	82.6	82.5	82.1	81.3	80.1	75.4	75.4	73.5	52.3	48.9	28.6	27.8	27.7	27.7	27.4	27.3	27.2	27.1	26.9	26.9	26.4	25.9	25.6	25.5
Score	2681	2681	2504	2484	2479	2447	2275.5	2215	2212	2200	2180	2148	2022.5	2022.5	1970	1401.5	1311	168	746	741.5	741.5	734	732	729	727.5	722.5	721	709	695	687	684.5
Result No.	1	8	ю	4	2	φ	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31

32 682.5 25.5 520 2 Q7KVF1_DROME 34 682.5 25.5 551 2 Q9WOXO_DROME 35 678 25.3 471 1 CD36_MESAU 36 677.5 25.3 471 2 Q9SWOXO_RAT 37 677 25.3 471 2 Q5ZINB_CHICK 38 677 25.3 471 2 Q5ZINB_CHICK 39 677 25.3 471 2 Q6ZINB_CHICK 40 675 25.2 472 2 Q6JSI2_WACKU 41 668 25.2 472 2 Q6JSI2_WACKU 42 663 24.7 472 2 Q8SZYJ_DROME 43 662 24.7 472 2 Q3STSY_BROME 44 659 24.6 472 1 CD36_MOUSE 45 645 24.1 471 1 CD36_MOUSE	Q7kvf1 drosophila	Q9w0x0 drosophila	P70110 mesocricetu	Q925w0 rattus norv	Q5zli8 gallus gall	P16671 h platelet	Q6imx5 rattus norv	Q6j512 macaca mula	Q4r6b4 macaca fasc	Q8szv3 drosophila	035754 rattus norv	Q08857 mus musculu	Q8c6z4 mus musculu	
682.5 25.5 682.5 682.5 678 25.3 677.5 25.3 677 25.3 677 25.2 6675 24.7 662 24.7 665 24.7 665 24.7	Q7KVF1 DROME	Q9WOXO DROME	CD36 MESAU	Q925WO RAT	Q5ZLI8 CHICK	CD36 HUMAN	Q6IMXS RAT	Q6J512 MACMU	Q4R6B4 MACFA	Q8SZV3_DROME	035754 RAT	CD36 MOUSE	QBC6Z4 MOUSE	CD36_RĀT
682.5 25.5 682.5 682.5 678 25.3 677.5 25.3 677 25.3 677 25.2 6675 24.7 662 24.7 665 24.7 665 24.7	7	7	г	7	7	Н		~	0	~	7	Н	8	ч
682.5 682.5 678 678 677 677 675 662 663 663 663	520	551	471	472	471	471	472	472	472	469	472	471	472	471
	25.5	25.5	25.3	25.3	25.3	25.3	25.3	25.2	25.2	24.9	24.7	24.7	24.6	24.1
2 E E E E E E E E E E E E E E E E E E E	682.5	682.5	678	678	677.5	677	677	675	675	668	663	662	629	645
	32	33	34	32	36	37	38	39	40	41	42	43	44	45

## ALIGNMENTS

```
MUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

WICLEOTIDE SEQUENCE [LARGE SCALE MRNA].

MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Ralausner R.D., Collins P.S., Wagner L., Schaefer C.F., Bhat N.K.,

Altschul S.F., Zeeberg B.B., Buctow K.H., Schaefer C.F., Bhat N.K.,

Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,

A blatchench L., Marusins K., Farmer A.A., Rubin G.M., Hong L.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Brownstein M.J., Waken P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Nilalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,

Radesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Rodinguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Rodinguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Butterfield Y.S.M., Krzywinski M.I., Skalska U., Smailus D.E.,

Bromsten A., Schein J.E., Jones S.J.M., Marra M.A.;

R. "Manne A.M., Schein J.E., Jones S.J.M., Marra M.A.;

R. "Manne A.M., Romenander M. Marra M.A.;

R. "Manne A.M., Romenander M. Marra M.A.;

R. "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                  This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R EMBL; U37799; AAC52378.1; -; mRNA.
R EMBL; AK010622; BAB27068.1; -; mRNA.
R EMBL; AK03114; BAC25802.1; -; mRNA.
EMBL; AK033114; BAC25802.1; -; mRNA.
R EMBL; AK033114; BAC28107.1; -; mRNA.
R EMBL; BC004656; AAH04656.1; -; mRNA.
R EMBL; BC004659; Caveolous.
R GO; GO:0016599; C:caveolar membrane, IDA.
R GO; GO:000299; C:integral to membrane of membrane fraction; IDA.
R GO; GO:0002159; C:integral to plasma membrane, IDA.
R InterPro; IPR005159; C36 antigen.
R InterPro; IPR005428; C36 antigen.
R PAWRHER; PRHR192159; C36 antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Potential.

Extracellular (Potential).

Potential.

Cytoplasmic (Potential).

N-linked (GlCNAc. . .) (Potential).

N-linked (GlCNAc. . .) (Potential).

N-linked (GlCNAc. . .) (Potential).

N-linked (GlCNAc. . .) (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cytoplasmic (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- PTM: N-glycosylated (By similarity).
-!- SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Glycoprotein; Receptor; Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          steroidogenic tissues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11
32
32
4440
4460
102
102
108
116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12
4441
102
102
1108
1116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPO DOM
TRANSMEM
TOPO DOM
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPO DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         removed
```

```
420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                              9
                                                                                                                         EKCFLFWSGSKKGSQDKEAIOAYSESLMSPAAKGTVLQEAK
L. -> GPEDITSPPMLAMSDOPSPYTPLLEDSLSGQPTS
AMA (in Ref. 2, BAB27068).
SCFCDD62DD6ECB1C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                       181 WGYDDFFVHFLATYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADFVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ebert L., Muenstermann E., Schatten R., Henze S., Bohn E.,
Mollenhauer J., Wiemann S., Schick M., Korn B.;
"Cloning of mouse full open reading frames in Gateway(R) system entry
                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LINPNPKEHSLFLDIHPVTGI PMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AMGGKPLSTFYTOLVIMPQVLHYAQXVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLEFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGWMKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                  WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                               1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPNEVLNGOKPVVRERGPYVYREFROKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                         121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                 Gaps
                 (Potential). (Potential). (Potential).
                                                              (Potential)
                                                                                                                                                                                                                                 ö
                                                                                            (Potential)
                                                                                                                                                                                                  100.0%; Score 2681; DB 1; Length 509; 100.0%; Pred. No. 3.8e-195; ive 0; Mismatches 0; Indels 0.
                                                                                                            BAB27068)
 (GlcNAc...) (GlcNAc...) (GlcNAc...) (GlcNAc...) (GlcNAc...) (GlcNAc...) (GlcNAc...) (GlcNAc...) (GlcNAc...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Last sequence update)
Last annotation update)
N-linked (GlcNAc. .
N-linked (GlcNAc. .
N-linked (GlcNAc. .
N-linked (GlcNAc. .
N-linked (GlcNAc. .
N-linked (GlcNAc. .
N-linked (GlcNAc. .
N-linked (GlcNAc. .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                         56754 MW;
                                                                                                                                                                                                                    100.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q4FK30 MOUSE PRELIMINARY;
Q4FK30;
13-SEP-2005 (TEMBLrel. 31,
13-SEP-2005 (TEMBLrel. 31,
13-SEP-2005 (TEMBLrel. 31,
                                                                                                                                                                                                                                    Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [1]
NUCLEOTIDE SEQUENCE.
                                                                                                                                                                         509 AA;
                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Scarbl protein.
Name=Scarbl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                   CARBOHYD
CARBOHYD
                                               CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                              CONFLICT
                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                      Query Match
    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT .
Q4FK30_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
    57777777777
                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                       음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ठ
```

```
[3]
NUCLEOTIDE SEQUENCE,
                                                                                                        rissum=Lung;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPO DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COPO_DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                removed
   61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                             240
                                                                                                                                    VPFYLSVYPFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                              121 FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                          SKIDYWHSEQCNMINGTSGQMWAPFWTPBSSLBFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                              241 SKIDYWHSEQCNWINGTSGQMWAPFWTPESSLEPFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                         FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                            301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                               WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                   LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                           AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                              9
                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=Wistar; TISSUE-Ovary;
PubMed=9177301; DOI=10.1006/bbrc.1997.6646;
Mizutani T., Sonoda Y., Minegishi T., Wakabayashi K., Miyamoto K.;
"Cloning, characterization, and cellular distribution of rat scavenger receptor class B type I (SRBI) in the ovary.";
Biochem. Biophys. Res. Commun. 234:499-505(1997).
                                                                                                         MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKOVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
                                                                           Gaps
                                                                         ;
                                                   100.0%; Score 2681; DB 2; Length 100.0%; Pred. No. 3.8e-195;
                                                                         0; Indels
       Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; CT010222; CAJ18430.1; -; mRNA.
SEQUENCE 509 AA; 56754 MW; SCFCDD62DD6ECBIC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=Sprague-Dawley; TISSUE=Liver;
Johnson S.C.M., Svensson P.A., Carlsson B.;
Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-BI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           509 A.A.
                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                               SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Muroidea; Muridae; Murinae; Rattus.
NCBI_TaxID=10116;
                                                                       Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegicus (Rat)
vector (pDONR201).";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE
                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Name=Scarb1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCRB1 RAT
                                                                                                                                    61
                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                   Query Match
                                                                Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P97943;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 3
Sarr
                                                                                                          셤
                                                                                                                                   ò
                                                                                                                                                       셤
                                                                                                                                                                                             셤
                                                                                                                                                                                                                   ठे
                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
AND TARACTION WITH PUDZKI.

XX TREARLE-Wister;

XX TREAIN-Wister; TISSUB-Liver;

XX TREAIN-Wister; TISSUB-Liver;

XX TREAIN-Wister; TISSUB-Liver;

XX TREMOTO M., Arai H., Feng D., Tanaka K., Aoki J., Dohmae N., Takio K.,

Adachi H., Tsujimoto M., Innoue K.;

Adachi H., Tsujimoto M., Innoue K.;

Adachi H., Tsujimoto M., Innoue K.;

Adachi H., Tsujimoto M., Timoue K.;

Adachi H., Tsujimoto M., Timoue K.;

Adachi H., Tsujimoto M., Timoue K.;

XX Tidentification of a PDZ-domain-contening protein that interacts with

XX Tidentification of a PDZ-domain-contening protein that interacts with

XX Tidentification of a PDZ-domain-contening protein that interacts with

XX Tidentification of a PDZ-domain-contening proteins, phosphatidylserine and apoptotic

Cells. Probable receptor for HDL, located in particular region of

the plasma membrane, called caveolae. Facilitates the flux of free

and esterified cholesterol between the cell surface and

extracellular donors and acceptors, such as HDL and to a lesser

extent, apoB-containing lipoproteins and modified lipoproteins.

Probably involved in the phagocytosis of apoptotic cells, via its

phosphatidylserine binding activity (By similarity).

--- SUBURIT. The C-Terminal region binds to e PDZKI.

--- SUBURIT. The C-Terminal region binds to e PDZKI.

--- SUBURITAR LOCATION: Integral membrane protein. Predominantly

localized to cholesterol and sphingomyelin-enriched domains within

--- PTW. N-GIVCORVIBLED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                       Kawasaki Y., Nakagawa A., Nagaosa K., Shiratsuchi A., Nakanishi Y., "Phosphatidylyserine binding of class B scavenger receptor type I, a phagocytosis receptor of testicular Sertoli cells."; J. Biol. Chem. 277:27559-27566 (2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Potential) (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Potential)
                         STRAIN=Donryu; TISSUE=Testis;
MEDLINE=22128898; PubMed=12016218; DOI=10.1074/jbc.M202879200;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Potential
                                                                                                                                                                                                                                                                                                     NIH - Mammalian Gene Collection (MGC) project,
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cytoplasmic (Potential).
Potential.
Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  792A0BBE8D11A105 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytoplasmic (Potential)
N-linked (GlcNAc. .)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (Glcnac.
(Glcnac.
(Glcnac.
(Glcnac.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PIR; JC5533; JC5533.
Ensembl; ENSRNOG00000000981; Rattus norvegicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GlcNAc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GlcNAc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GlcNAc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PTM: N-glycosylated.
SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
AND GLYCOSYLATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-linked
N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Glycoprotein, Receptor, Transmembrane, TOPO DOM 1 11 Cytoplasm TRANSMEM 12 32 Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AB002151; BAA74541.1; -; mRNA
EMBL; BC076504; AAH76504.1; -; mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; U76205; AAB19203.1; -; mRNA.
EMBL; D89655; BAA14004.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36.antigen.
PANTHER; PTHR11923; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  56957 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                      INTERACTION WITH PDZK1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CD36; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PANTHER; PTHR11923;
Pfam; PF01130; CD36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                462
102
108
116
173
212
227
227
310
310
383
```

```
Endocrinology 140:5669-5681(1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                   al Similarity 91.7%
467; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         O88548 RAT PRELIMINARY;
088548;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat)
                       [3]
NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                Query, Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0088548
1D 08
1D 08
1D DT 01
1D 01
01 01
02 EW 00
00 EW 00
00 MMU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
REPRESENTATION OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                  61 VPFYLSVYFFEVVNPSEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLR 120
                                                                                                                                                                                                                                                                                                   FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEPPSPEACRSMKLTYNESRVPEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421 MAGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                          VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                  9
                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=Sprague-Dawley; TISSUE=Steroidogenic tissues;
MEDLINE=20043932; PubMed=10579331; DOI=10.1210/en.140.12.5669;
Lopez D., McLean M.P.;
"Sterol regulatory element-binding protein-la binds to cis elements in the promoter of the rat high density lipoprotein receptor SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=Sprague-Dawley, TISSUE=Steroidogenic tissues;
MEDLINES-99236778; PubMed=10221589; DOI=10.1385/ENDO:9:3:243;
MCLean M.P., Sandhoff T.W.;
"Expression and hormonal regulation of the high-density lipoprotein (HDL) receptor scavenger receptor class B type I messenger ribonucleic acid in the rat ovary";
Endocrine 9:243-252(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSBAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 LAPDPKEHSLFLDIHPVTGIPMNCSVKRQUSLXIKSVKGVGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                           WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                     241 SEVNYWHSEQCIMINGTAGQMWAPPMTPESSLEFFSPEACRSMKLTYQESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
                                                                                                                                                               MGVSSRARWVALGLGVLGLLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                  MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                     Gaps
                                                                     ö
                       Length 509
                   Query Match 93.4%; Score 2504; DB 1; Length 5
Best Local Similarity 92.3%; Pred. No. 1.1e-181;
Matches 470; Conservative 23; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SODKEAMOAYSESLMSPAAKGTVLOEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Scavenger receptor class B type 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QESR89 RAT PRELIMINARY;
QESR89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [2]
NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=Scarb1;
                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                   쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             음
                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                   ઠે
```

```
240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 MMGGKTLATFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIIXQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPSEVINGQKPVVRERGPYVIREFRQKVNITFNDNDTVPYIENRSLR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMVRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 SEVNYWHSEQCNMINGTAGQMWADFWTPESSLEFFSPEACRSMKLTYQESRVFBGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 LNPDPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLPLLMFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Buarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Rattus.
NCBI_TAXID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFBGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MGVSSRARWVALGLGVLGLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..
                                                                                                                                                                                                                                                                                                                                                                                               509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-NOV-1998 (TrEMBLrel. 08, Created)
01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-NOV-1998 (TrEMBLrel. 24, Last senotation update)
Type II pnoumocyte CD36-related class B scavenger receptor.
Name-SRBIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
STRAIN-Sprague-Dawley, TISSUE-Steroidogenic tissues; McLean M.P., Sandhoff T.W., Lopez D.; Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases. EMBL; AV451993; ARA18347.1; -; mRNA. GO; GO:0016020; C:membrane; IEA. GO; GO:0010202; P:receptor activity; IEA. GO; GO:007155; P:cell adhesion; IEA. InterPro; IPR002159; CD36. InterPro; IRR005428; CD36. Altigen. PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                 509 AA; 56859 MW; EA0A76ECD207706C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       19;
                                                                                                                                                                                                                                                                                                                                                                                                  92.7%; Score 2484; DB 2;
91.7%; Pred. No. 3.6e-180;
ative 23; Mismatches 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481 SQDKEAMQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                    PRINTS; PR01610; CD36ANTIGEN PRINTS; PR01609; CD36PAMILY.
```

ö

```
EMBL; U11453; AAA61572.1; -; mRNA.
PIR; A53920; A53920.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          56735 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PR01610; CD36ANTIGEN PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91.3%;
89.0%;
                                         TISSUE=Ovarian carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Glycoprotein; Receptor; '
TOPO DOM 1 11 11
TRANSMEM 12 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF01130; CD36;
                             NUCLEOTIDE SEOUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      255
310
330
383
509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
     NCBI_TaxID=10029;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPO DOM
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ropo dom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                  removed
     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                 VEYLSVYFFEVVNPSEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSYIENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                    VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                     PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                              1 MGGSSRARWVALGLGVLGLLCAALGVIVILMVPSLIKQQVLKOVRIDPSSLSFGWWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421 MMGGKTLNTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIIYQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                         WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSOPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                               1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361 INPOPREHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cricetulus griseus (Chinese hamster).
Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Cricetidae; Cricetinae; Cricetulus.
                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                        .
0
                                                                                                                                                                                                                                              Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-BI) (HaSR-BI)
                                                                                                                                                                                                                                                                       20; Indels
                         STRAIN=Wistar;
Kolleck I., Schlame M., Fechner H., Looman A.C., Wissel
                                                              (JUN-1998) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                   509 AA; 57152 MW; 1272E4FE824AD7F8 CRC64;
                                                                                                                                                                                                                                            92.5%; Score 2479; DB 2; 91.2%; Pred. No. 8.6e-180; ative 25; Mismatches 20;
                                                                         EMBL; AF071495; AAC23892.1; -; mRNA.
Ensembl; ENSRNGG0000000981; Rattus norvegicus.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004972; F:receptor activity; IEA.
GO; GO:0007155; F:cell adhesion; IEA.
InterPro; IPR002159; CD36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SODKEAMQAYSESIMSPAAKGTVVQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                            PRINTS; PRO1610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                          Best Local Similarity .....
Matches 464; Conservative
                                                                                                                                                                   Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
[1]NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SCRB1 CRIGR
Q60417;
                                                             Submitted
                                                                                                                                                                                                          Receptor.
                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                              Query Match
                                                    Ruestow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CRIGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
 RN
RAG
DR DR DR DR KW
WW XW
```

셤

ઠ 용 ò

8 셤 ઠે 요

ò 요 ò 염

Š 원 ò 셤 ð g

```
Treoptor.;

3. Treoptor.;

3. J. Biol. Chem. 269:1003-21009(1994).

3. J. Biol. Chem. 269:1003-21009(1994).

3. J. Biol. Chem. 269:1003-21009(1994).

3. Cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells. Probable receptor for HDL, located in particular region of the plasma membhrane, called caveolae. Facilitates the flux of free and esterified cholesterol between the cell surface and extent, apoB-containing lipoproteins and modified lipoproteins.

3. C. extracellular donors and acceptors, such as HDL and to a lesser creative apoB-containing lipoproteins and modified lipoproteins.

4. SubcELIULAR LOCATION: Integral membrane protein. Predominantly composphatidylserine binding activity (By similarity).

5. C. I. SUBCELIULAR LOCATION: Integral membrane protein. Predominantly composite to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae (By similarity).

5. C. I. PTM: N-3lycosylated (By similarity).

5. C. I. SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            European Bioinformatics Institute. There are no restrictions on as long as its content is in no way modified and this statement is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNI TFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKOOVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                   B scavenger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1A7COFSF6CB61A17 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytoplasmic (Potential).
N-linked (GlCNAc. .) (1
N-linked (GlCNAc. .) (1
N-linked (GlCNAc. .) (1
N-linked (GlCNAc. .) (1
N-linked (GlCNAc. .) (1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytoplasmic (Potential)
MEDLINE=94342261; PubMed=7520436;
Acton S.L., Scherer P.E., Lodish H.F., Krieger M.;
"Expression cloning of SR-BI, a CD36-related class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Score 2447; DB 1;
; Pred. No. 2.3e-177;
35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GlcNAc.
(GlcNAc.
(GlcNAc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-linked
N-linked
N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nterpro; IPR002159; CD36.
Interpro; IPR005428; CD36_antigen.
PANTHER; PTHR11923; CD36; 1.
```

```
This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                   181 WGYEDPFVNFLSKYFPGMFPIKGKFGLFVGMNDSSSGVFTVFTGVQNFSKIHLVDKWNGL 240
                                                                                                                                                      361 LNPDFKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGVGQTGKIEPVVLFLLWFEGSG
                                           LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                            421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSBAVLG
                            SKIDYWHSEQCNMINGTSGQMWAPPMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kim J.G., Vallet J.L., Christenson R.K.; "Characterization of porcine high density lipoprotein (HDL) receptor SR-BI."; Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sus scrofa (Pig).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                       10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
11-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-BI) (High density
lipoprotein receptor SR-BI)
                                                                                                                                                                                                              421 MMGGKTLANTFYTQLVLMPPQVLHYAQYVLLGLGGLLLLLVPIIYQLRSQ----
                                                                                                                                                                                                                                                                                                                                               509 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AF467889; AAL75567.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36 antigen.
PANTHER; PTHR11923; CD36; 1.
Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                    481 SQDKEA---IQAYSESLMSP 497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRINTS; PR01610; CD36ANTIGEN
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                              SCRB1 PIG
Q8SQCI;
                                                                                                                                         361
                                                                                     301
                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       removed
                                                                                                                                                                                                                                                                                                                         RESULT
                                                                                                                                                                                                                                                                                                                                    SCRB1
                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                              유
                                                                                                                                         8
                                                                                                                                                                  셤
                                                                                                                                                                                                ò
                               ò
                                                       g
                                                                                     Š
                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPSEVLAGQKPVVRERGPYVIREFRQKVNITFNDNDTVPYIENRSLR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MGYDDPFVHPLATYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                            420
                                                                                                                                                                                                480
                                                                                                   241 SKVNYMHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPBACRSMKLTYHDSGVFEGIPTYR 300
                                                                                     FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
       WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGVSSRARWVALGLGVIGLLCAALGVIMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKBIP
                                                                                                                                            LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVP11CQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Rattus.
                                  SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               84.9%; Score 2275.5; DB 2; Length 506; 86.4%; Pred. No. 2.5e-164; ive 27; Mismatches 26; Indels 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lopez D., Rubin D., McLean M.P.;
"Regulation of the Rat SR-B Isoforms.";
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
BMBL; AY682847; AAT85567.1; -; mRNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0007155; P:cell adhesion; IEA.
InterPro; IPR002159; CD36.
InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36.antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     506 AA; 56342 MW; 6FDE625301320E2E CRC64;
                                                                                                                                                                                                                                                                                                                                                                            25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                    506 AA
                                                                                                                                                                                                                                                                        SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                     Scavenger receptor class B type 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRINTS; PR01610; CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                              Q6B417_RAT PRELIMINARY;
Q6B417;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN-Sprague-Dawley;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    [1]
NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           432;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                         301
                                                                                                                    301
                                                                                                                                               361
                                                                                                                                                                        361
                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loca
Matches
                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                           셤
                                   ò
                                                          셤
                                                                                       ò
                                                                                                                 셤
                                                                                                                                               ઠે
                                                                                                                                                                  셤
                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                         δ
```

```
Gissler B., Zhao X., Ghisetti V., Lavezzo B., Blum H.E., von Welzsacker F., Vitelli A., Scarselli E., Baumert T.F.; "Scavenger Receptor Class B Type I and Hepatitis C Virus Infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                              IEA
                                Primary Tupaia Hepatocytes.";
J. Virol. 79:5774-5785(2005).
GNBL, AR428553; AR42144.1.; mRNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IE
GO; GO:0007155; P:cell adhesion; IEA.
InterPro; IPR005159; CD36.
InterPro; IPR005428; CD36.
Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          member 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Created)
Zhao X., Gnicara ...
                                                                                                                                PRINTS; PR01610; CD36ANTIGEN
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scavenger receptor class B,
Name=SCARB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QSZLZS HUMAN PRELIMINARY;
QSZLZS;
                                                                                                                                                                  509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo.
NCBI_TaxID=9606;
                                                                                                                                                          Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT :
     8
                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                 · පු
                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RXCCCCGGGGGGGGGGG
                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                           VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                         61 VPFYLSVYFFDVINPNEILLQGQKPQVRERGPYVYREPRHKSNITFNDNDTVSFLEYRSYQ 120
                                                                                                                                                                                                                                                                                                        FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGBIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                               FVAPNTLFANGSVYPPNEGFCPCMESGIQNVSTCRFNAPLFLSHPHFYNADPVLAEAVSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                          SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                   FTAPDILFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVIG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGOTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPI1COLRSOEKCFLFWSGSKKG
                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Barth H., Cerino R., Arcuri M., Hoffmann M., Schurmann P., Adah M.I.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tupaia glis belangeri (Common tree shrew).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Euarchontoglires; Scandentia; Tupaiidae; Tupaia
NCBI_TaxID=37347;
                                                                                                                                (Potential)
                                                                                                            (Potential)
                                                                                                                       (Potential)
                                                                                       (Potential)
                                                                                                   (Potential)
                                                                                                                                                                                               ö
                                                                                                                                                                          DB 1; Length 509;
                                                                                                                                                                                               53; Indels
                        Potential.

Extracellular (Potential).

Cytoplasmic (Potential).

N-linked (GloNAc. .) (Pot
N-linked (GloNAc. .) (Pot
N-linked (GloNAc. .) (Pot
N-linked (GloNAc. .) (Pot
N-linked (GloNAc. .) (Pot
N-linked (GloNAc. .) (Pot
                                                                                                                                                     F7421796C391C4C1 CRC64;
               toplasmic (Potential)
                                                                                                                                (GlcNAc. . .)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Last sequence update)
Last annotation update)
                                                                                                                                                                                       le-159;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           509 AA
                                                                                                                                                                                    ; Pred. No. le-18
48; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 2215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SODKEAIOAYSESLMSPAAKGTVLQEAKL
                                                                                                                                N-linked
                                                                                                                                          N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Scavenger receptor class B member 1.
Name=SCARB1;
                                                                                                                                                      57514 MW;
                                                                                                                                                                       82.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QGT8F1 TUPGB PRELIMINARY;
QGT8F1;
                                                                                                                                                                                    Best Local Similarity 80.2
Matches 408; Conservative
   Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [1]
NUCLEOTIDE SEQUENCE.
                                                                                                                                                      Š
                                                                                                                                        383
   Glycoprotein;
           TOPO DOM
TRANSMEM
TOPO DOM
                                                                                     CARBOHYD
CARBOHYD
CARBOHYD
                                           TRANSMEM
TOPO DOM
CARBOHYD
                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                           CARBOHYD
                                                                                                                     CARBOHYD
                                                                                                                                CARBOHYD
                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TUPGB
   ઠે
                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                              <u>8</u>
                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
```

```
61 VPFYLSVYFFDVLNPNEILKGEKPQVRERGPYVYREFRHKSNITFNDNDTVSYLEYRSFR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 AMEGETLRTFYTQLVLLPAVLHYAQYVLLALGCLLLLVPVVHHIRSQEKCYLFWSSSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121 FQPAKSRGLESDYIVMPNILVLGAAIMMENKPMSLKLMMTLAFSTLGERAFMNRTVAEIM 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Buarchontoglires, Primates, Catarrhini, Hominidae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 AMGGKPLSTFYTQLVLMPQVLHYAQYVDLGLGGLLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
οŧ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                        Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                      57369 MW; FOA3FBB1431FFB18 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                   Query Match 82.5%; Score 2212; DB 2; Best Local Similarity 80.0%; Pred. No. 1.7e-159; Matches 407; Conservative 49; Mismatches 53;
```

ö

```
SCRB1 BOVIN
ID SCRB1 BOVIN
AC 018824;
                                                                                               Name=SCARB1;
                                            10-OCT-2003
                                                                       13-SEP-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPO DOM
TRANSMEM
TOPO DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPO DOM CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MO
M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                       MEDLINE=2238827; PubMed=12477932; DOI=10.1073/pnas.242603899;
A Klausner R.D., Colling F.S., Wagner L., Shemmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A mistchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
B. Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
A Brownstein M.J., Usdin T.B., Tooshlyuki S., Carninci P., Prange C.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
A Raha S.S., McKernan D.Y., McKernan R.J., Malek J.A., Gunaratne P.H.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A Phalton B.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Phalton M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
B Hutterfield Y.S. M., Krzywinski M.I., Schaku U., Smailus D.E.,
B Chneration and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQRKFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 IPFYLSVYFFDVWNPSELLKGEKPQVRERGPYVYREFRHKSNITFNNNDTVSFLEYRTFQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 FQPSKSHGSESDYIVMPNILVLGAAVMMENKPWTLKLIMTLAFTTLGERAFMNRTVGEIM 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FORDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGCSAKARWAAGALGVAGILCAVIGAVMIVMVPSLIKQQVIKNVRIDPSSLSFNMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                       82.1%; Score 2200; DB 2; Length 509; 79.6%; Pred. No. 1.4e-158; 1. 49; Mismatches 55; Indels
                                                                                                                                                                                                                                                                                                                              NIH MGC Project; Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                              509 AA; 56973 MW; 0184AE9CEC595374 CRC64;
                                                                                                                                                                                                                                                                             Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SKDKEAIQAYSESLMTSAPKGSVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                        EMBL; BC093732; AAH93732.1; -; mRNA.
                                                                                                                                                                                                                                                                 mouse cDNA sequences."
                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similaricy ....
Matches 405; Conservative
                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE
NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                    rissum=Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                 and
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

```
where the properties of the properties and solutions of the probable receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylearine and apoptotic cells. Probable receptor for HDL, located in particular region of the plasma membrane, called caveolae. Facilitates the flux of free and esterified cholesterol between the cell surface and extracellular donors and acceptors, such as HDL and to a lesser extent, apost-containing lipoproteins and modified lipoproteins. Probably involved in the phagocytosis of apoptotic cells, via its phosphatidylearine binding activity (By similarity).

1. SUBCELDIAR LOCATION: Integral membrane protein. Predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, alled caveolae (By similarity).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the Buropean Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-99068685; PubMed-9406850; DOI=10.1016/S0303-7207(97)00173-1; Rajapaksha W.R.A.K.J.S., McBride M., Robertson L., O'Shaughnessy P.J.; Sequence of the bovine HDL-receptor (SR-BI) cDNA and changes in receptor mRNA expression during granulosa cell luteinization in vivo and in vitro.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Potential).
(Potential).
(Potential).
(Potential).
(Potential).
                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  81.3%; Score 2180; DB 1; Length 509; 78.6%; Pred. No. 4.6e-157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B3B7FD368C22C12F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cytoplasmic (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
N-linked (GLONAC...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytoplasmic (Potential) N-linked (GlcNAc. .)
                                                                                                                               Scavenger receptor class B member 1 (SRB1) (SR-BI)
                                                                                                        annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PTM: N-glycosylated (By similarity). SIMILARITY: Belongs to the CD36 family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          50; Mismatches
509 AA
                                                                            Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; AF019384; AAB70920.1; -; mRNA.
InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36 antigen.
PANTHER; PTHR11923; CD36; 1.
PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    57610 MW;
                                               (Rel. 42, Created)
(Rel. 42, Last seq
(Rel. 48, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam, PF01130, CD36; 1.
PRINTS; PR01610, CD36ANTIGEN.
PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          400; Conservative
STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Glycoprotein; Receptor;
                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Corpus luteum;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12
33
441
461
102
103
113
212
227
227
227
330
330
                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE
                                                                                                                                                                                    Bos taurus (Bovine)
                                                                                                                                                                                                                                                                                               NCBI_TaxID=9913;
```

```
MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ŕ
                                                                                                                                                                                                                                                                                                                                                                                         SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                     |:||| ||||||||:| |||||||:|
481 SKDKBAAQAYSESLMTPDPKGTVLQEARL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Calvo D., Vega M.;
Identification, primary structure and di
member of the CD36/LINPII gene family.";
J. Biol. Chem. 268:18929-18935(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE (ISOFORMS 1 AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     thrombospondin receptor-like 1).
Name=SCARB1; Synonyms=CD36L1, CLA1;
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Promyelocyte;
MEDLINE=93366811; PubMed=7689561;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE (ISOFORM 4).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SCRB1_HUMAN
                                                                                                        121
                                                                                                                                                     181
                                                                                                                                                                            181
                                                                                                                                                                                                   241
                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCRB1
                                                                             g
                                                                                                        8
                                                                                                                        g
                                                                                                                                                                      셤
                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                               8
                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                               240
                                                61 VPFYLSVYFFNIVNPEGIIQGQKPQVQEHGPYVYREFRHKSNITFNNNDTVSFLEYRSYQ 120
                                                                                                                                         181 WGYDDPLIHLINQYFPNSLPFKGKFGLFAELNNSDSGLFTVFTGVKNFSRIHLVDKWNGY 240
                                                                                                                                                                                       480
                                 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                           SKIDYWHSEQCHMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                        FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                     LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                   421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCFLFWSGSKKG 480
               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ritsch A., Tancevski I., Schgoer W., Ffeifhofer C., Gander R., Bler P., Foeger B., Stanzl U., Patsch J.R.; "Molecular characterization of tabbit scavenger receptor class B types I and II: portal to central vein gradient of expression in the
WGYDDPPVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scavenger receptor class B type I.
Oryctolagus cuniculus (Rabbit).
Bukaryota; Metazca; Logomorpha: Buteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporides;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   57052 MW; 00DD47F1AF2DB4E0 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80.1%; Score 2148; DB 2; 77.6%; Pred. No. 1.2e-154; ive 55; Mismatches 59;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PubMed=14595001; DOI=10.1194/jlr.M300353-JLR200;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 æ
                                                                                                                                                                                                                                                                                                                                                                              |:||||:||||| ||: | ||||||:|
SKDKEAVQAYSEFLMTSAPKGTVLQEARL 509
                                                                                                                                                                                                                                                                                                                                                                  SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lipid Res. 45:214-222(2004).

3L; AY283277; AAP40266.1; -; mRNA.

GO:0016020; C:membrane; IEA.

GO:0004872; F:receptor activity; IEA.

GO:0007155; P:cell adhesion; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36_antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CD36ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best_Local Similarity 77.6%;
Matches 395; Conservative 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS; PR01610; CD36ANTIGEI
PRINTS; PR01609; CD36FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                             OGWIW9 RABIT PRELIMINARY;
OGWIW9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF01130; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    509 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Receptor.
SEQUENCE
                                                                                                                                                                                                                        301
                                                                                                                                                                           241
                                                                                                                                                                                                                                                                     361
                                                                                                                             181
                                                                                                                                                                                                 241
                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                   RABIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J. Lip
EMBL;
                                                     셤
                                                                                                셤
                                                                                                                                              셤
                                                                                                                                                                                              셤
                                 ò
                                                                              Š
                                                                                                                           ઠે
                                                                                                                                                                          ò
                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                 용: 원
```

```
300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
9
                           1 MGGRARARRAAAQIGVVGILCAVVGAVLIAAVPPIIRQMVLKNVRIDPNSLSFNMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Buarchontoglires, Primates, Catarrhini, Hominidae,
                                                                                                                                                                                                                                                                                                                                                                                  SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LNPNPKEHSLFLDIHPVTG1PMNCSVKMOLSLYIKSVKG1GQTGK1EPVVLPLLWFEOSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421 AMEGETLSTFYTQLVLLPNVLQYAQYVLLALGCVLLLAPVIYQVRSQEKCYLFWSSSKKG
                                                                                                                                                                                                                                                                                                                                                 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CD36 antigen-like type I receptor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-Prostate, and Rhabdomyosarcoma;
MEDLINE-22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLA-1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORMS 1 AND 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hirano K.-I., Yamashita S., Matsuzawa Y.;
Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   distribution
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OWNTO, 014016; OEKFX4;
10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Scavenger receptor class B member 1 (SRB1) (SR-B1)
1) (CD36 and LIMPII analogous 1) (CLA-1) (Collagen
```

```
This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RICRSGSGHCWGLRSTLASFACRVATTLPVLEGLGPSLGGG
TGS -> EKCYLFWSSSKKGSKDXEAIQAYSESLMTSAPKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQQVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VGAGQRAARADSHSLACWGKGASDRTLWPTAAWSPPPAAVL
            -!- SUBCELLULAR LOCATION: Integral membrane protein. Predominantly localized to cholesterol and sphingomyelin-enriched domains within
                                                                                                                                                                    Isoli=Q8WTV0-3; Sequence-VSP_008553, VSP_008554;
Name=4; Synonyms=SR-BIII;
Isold=Q8WTV0-4; Sequence-VSP_011037, VSP_008554;
TISSUE SPECIFICITY: Widely expressed.
PTM: N-glycosylated.
POLYMORPHISM: The Ser-2 variant is associated with higher plasma triglyceride concentration in subjects with heterozygous familial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Potential).
(Potential).
(Potential).
(Potential).
(Potential).
(Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Alternative splicing; Glycoprotein; Polymorphism; Receptor;
                                                                                                       Š
P55345:HRMT1L1; NbExp=1; IntAct=EBI-78657, EBI-78458;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     K -> MALQPSW (in isoform 4)
                                                                                                       Note=May be due to a competing donor splice site. experimental confirmation available;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cytoplasmic (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-linked (GlCNAC.)
N-linked (GlCNAC.)
N-linked (GlCNAC.)
N-linked (GlCNAC.)
N-linked (GlCNAC.)
N-linked (GlCNAC.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cytoplasmic (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Missing (In isoform 2).
                                                                Event=Alternative splicing; Named isoforms=4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GlcNAc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO; GO:0005886; C:plasma membrane; TAS.
GO; GO:0004872; F:receptor activity; TAS.
GO; GO:0005213; F:transporter activity; TAS.
GO; GO:0008203; P:cholesterol metabolism; TAS.
GO; GO:0006810; P:transport; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             008553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GlcNAc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  011037
                                                                                                                                                                                                                                                                                                                                                                                   EMBL; Z22555; CAA80277.1; -; mRNA.
EMBL; AF515445; AAQ08185.1; -; mRNA.
EMBL; BC022087; -; NOT ANNOTATED CDS; mRNA.
EMBL; BC080647; AAH80647.1; -; mRNA.
                                                                                                                                                                                                                                                                    hypercholesterolemia.
-!- SIMILARITY: Belongs to the CD36 family.
                                                                                                                                Name=1; Synonyms=SR-BI;
IsoId=Q8WTV0-2; Sequence=VSP_008554;
                                      the plasma membrane, called caveolae.
                                                                                            lsoId=Q8WTV0-1; Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FTIG=VSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ensembl; ENSG00000073060; Homo sapiens.
HGNC; HGNC:1664; SCARB1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-linked
N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR002159; CD36.
InterPro; IPR005428; CD36 antigen.
PANTHER; PTHR11923; CD36; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS; PR01610; CD36ANTIGEN PRINTS; PR01609; CD36FAMILY.
                                                                                                                                                           Name=2; Synonyms=SR-BII;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF01130; CD36; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                         PIR; S36656; A48528.
IntAct; Q8WTV0; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12
33
33
444
465
102
108
173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601040; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TRANSMEM
TOPO DOM
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VARSPLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VARSPLIC
                                                                                                                                                                                                                                                                                                                                                              removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ropo DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VARSPLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPO DOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PARBOHYD
```

S.

., Sakaki Y., Tanaka A., Yokoyama

```
Totoki Y., Toyoda A., Takeda T., & Ohara O., Nagase T., Kikuno F.R.; "None Title.";
   TISSUE=Brain;
                                                              NON TER
SEQUENCE
                                                                                                                                       59
                                                                                                                                                        61
                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                            269
                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                             329
                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                               389
                                                                                                                                                                                                                                                                                                                                                                                  449
                                                                                                                                                                                                                                                                                                                                                                                                                 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                   RABIT
  SCHERE
                                                                                                                      ò
                                                                                                                                      셤
                                                                                                                                                        ઠે
                                                                                                                                                                     셤
                                                                                                                                                                                         ò
                                                                                                                                                                                                        셤
                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                               VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                           421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                  FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                    SKIDYWHSBQCNMINGTSGQMWAPFWTPESSLEPPSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                             FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                       LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                9
                                                                                                                                                                                            MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                    WGYDDPFVHPLNTYLPDMLP1KGKFGLFVGMNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                Gaps
 SVLQEAKL (in isoform 1, isoform 2 and
                                                                                                                                                               .
.
                                                                                                                                              DB 1; Length 552;
                                                          G -> S.
/FTTd=VAR 017100.
S -> G (in dbSNP:10396213).
/FTTd=VAR 019507.
C -> R (in dbSNP:2293440).
/FTTd=VAR 017101.
                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-MAY-2005 (TrEMBLrel. 30, Created)
10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
Scavenger receptor class B member 1 variant (Fragment).
Homo sapiens (Human).
                FTId=VSP_008554.
; -> S (in dbSNP:4238001)
FTId=VAR_017098.
                                                                                                            -> L (in Ref. 2).
-> S (in Ref. 1).
06B0BD771FEA284F CRC64;
                                                                                                                                             75.4%; Score 2022.5; DB 1; 74.6%; Pred. No. 4.8e-145; iive 52; Mismatches 67;
                                                FTIG=VAR_017099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      581 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 SQDKEAIQAY----SESLMSPAA 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RADSHSLACWGKGASDRTLWPTA 498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                             60878 MW;
                                                                                                                                                    Best Local Similarity 74.68 Matches 375; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q59FM4_HUMAN PRELIMINARY;
Q59FM4;
                                                           167
                                                                           229
                                                                                            511
                                                                                                                             552 AA;
                                         135
                                                          167
                                                                           229
                                                                                            511
                                                                                                             70
97
                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                           CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                               Н
                                                                                                                                                                                                н
                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          476
                                                                                                                                              Query Match
                         VARIANT
                                         VARIANT
                                                          VARIANT
                                                                          VARIANT
                                                                                           VARIÀNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q59FM4_
윱
                                                                                                                                                                                                                               g
                                                                                                                                                                               ઠ
                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                               8.8
                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RECOCCOSEDITION
                                                                                                                                                                                                                                                                                                               . ∂
                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                   ठे
                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;

NUCLEOTIDE SEQUENCE

MCBI\_TaxID=9606;

```
240
                                                                                                                                                                                                                                                                                        VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                         POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMMTLALVTMGORAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                              149 FQPSKSHGSESDYIVMPNILVLGAAVVMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIM 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FVAPKTLFANGSIYPPNEGFCPCLESGIONVSTCRFSAPLFLSHPHFLNADPVLAEAVTG 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PubMed=14595001; DOI=10.1194/jlr.M300353-JLR200;
Ritsch A., Tancevski I., Schgoer W., Pfeifhofer C., Gander R.,
Eller P., Foeger B., Stanzl U., Patsch J.R.;
"Molecular characterization of rabbit scavenger receptor class B types
I and II: portal to central vein gradient of expression in the
                                                                                                                                                                                                                                                                                                           1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                               FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LNPNPKEHSLFLDIHPVTGIPMNCSVKWQLSLYIKSVKGIGQTGKIRPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                        WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Euarchontoglires, Glires, Lagomorpha, Leporidae,
                                                                                                                                                                   ٠<u>.</u>
                                                                                                                           Length 581;
                                                                                                                                                                 67; Indels
Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases
EMBL; AB209436; BAD92673.1; -; mRNA.
                                                                                64186 MW; 795810C1C2FA75A3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OGWIN8;
05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Scavenger receptor class B type II.
                                                                                                                           DB 2;
                                                                                                                       75.4%; Score 2022.5; DB 2 74.6%; Pred. No. 5.1e-145; ive 52; Mismatches 67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    501 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481 SQDKEAIQAY----SESLMSPAA 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | : : | : | | RADSHSLACWGKGASDRTLWPTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            J. Lipid Res. 45:214-222 (2004)
                                                                                                                       Query Match
Best Local Similarity 74.6
Matches 375; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OGWIWB_RABIT PRELIMINARY;
                                                                                581 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oryctolagus.
NCBI_TaxID=9986;
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                   241 SKIDYWHSEOCNMINGTSGOMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361 INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIBPVVLPLIMFBQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 SKVNFWHSDQCNMINGTSGQMWAPFWTPBSSLEFYSPBACRSMKLIYQKPGVFGGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 VPFYLSVYFFEVVNPNEVLNGOKPVVRERGPYVYREFROKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                    121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                       1 MGGRARARRADAGLGVVGLLCAVVGAVLIAAVPPLIRQMVLKOVVRIDPNSLSFNWWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                         1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 501;
                                                                                                                                                                 Query Match 73.5%; Score 1970; DB 2; Length 5 Best Local Similarity 77.3%; Pred. No. 4.2e-141; Matches 361; Conservative 51; Mismatches 55; Indels
                                                                                                                                       501 AA; 55675 MW; 9A839B31C49F4C71 CRC64;
EMBL; AY283278; AAP40267.1; -; mRNA.
GO; GO:0015620; C:membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0001155; P:cell adhesion; IEA.
InterPro; IPR002159; CD36.
InterPro; IPR00548; CD36.
Pfam; PF01130; CD36; 1.
PRINTS; PR01610; CD36AWIGEN.
PRINTS; PR01610; CD36AWIGEN.
                                                                                                                           Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
    8 6
                                                                                                                                                                                                                                                                                                                                                                                      8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                          8 6
                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                       ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

Search completed: February 23, 2006, 12:45:06 Job time : 148.5 secs

90, Appl 46306, A

Sequence

Sequence

4950, Ap 2031, Ap 21, Appl

Sequence Sequence Sequence Sequence

Appli

Sequence Sequence Sequence

Sequence Sequence Sequence Sequence Sequence Sequence

OM protein

Run on:

Sequence:

Searched:

Database

Result No.

```
Sequence 4, Application US/08559505

Sequence 4, Application US/08559505

Patent No. 592533

GENERAL INFORMATION:

APPLICANT: Monty Krieger, Susan L. Acton, Attilio Rigotti, Helen H. APPLICANT: Hobbs and Kathy Landshulz

TITLE OF INVENTION: METHODS FOR MODULATION OF LIPID UPTAKE

TITLE OF INVENTION: METHODS FOR MODULATION OF LIPID UPTAKE

CORRESPONDENCES ADDRESS:

ADDRESSEE: Patrea L. Pabst

STREET: 2800 One Atlantic Center

STREET: 1201 West Peachtree Street

CITY: Atlanta

STREET: 40300 One Atlantic Center

STREET: 1201 West Peachtree Street

CITY: Atlanta

STREET: 1201 West Peachtree Street

CITY: Atlanta

STREET: 1201 West Peachtree Street

CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOCATION: 1.509 / Punction = "Amino acid sequence for the INFORMATION: murine Scavenger Receptor Class BI."
US-08-559-565-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%; Score 2681; DB 1; Length 509; Best Local Similarity 100.0%; Pred. No. 1.7e-284; Matches 509; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: RIOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/559,505
FILING DATE: 29-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabet, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7150
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
                                              US-09-270-767-45262
US-09-270-767-61875
US-09-270-767-81312
US-09-270-767-81312
US-09-270-767-89167
US-09-270-767-4865
US-09-270-767-44571
US-09-131-09000-4950
US-09-131-00000-4950
US-09-101-104-047-2031
                                                                                                                                                                                                                                                                       US-09-161-939A-21
US-09-583-110-3216
US-09-107-433-2917
                                                                                                                                                                                                                                                                                                                                                                      ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 509 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
NAME/KEY: misc. feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein
                                                                                       888.6
6.0
7.0
7.0
7.0
7.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                JS-08-559-505-4
                                                                                                                                                                                                                     100.5
99
98.5
97.5
97.5
Sequence 86, Appl
Sequence 44, Appl
Sequence 11488, A
                                                                                                                    February 23, 2006, 12:45:24; Search time 34 Seconds (without alignments) 1237.704 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                  1 MGGSSRARWVALGLGALGLL......YSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 4,
Sequence 4,
Sequence 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4,
Sequence 8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence Sequence Sequence A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
             GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6_COMB.pep:*
(cgn2_6/ptodata/1/iaa/H_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/RB_COMB.pep:*
(cgn2_6/ptodata/1/iaa/RB_COMB.pep:*
(cgn2_6/ptodata/1/iaa/RB_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-031-626-2
US-09-054-272-59
US-09-949-016-8167
US-09-949-016-7898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JS-09-949-016-11488
                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-559-505-2
US-08-749-907-2
US-08-890-980-4
US-08-890-979-4
US-09-031-626-4
US-09-241-581B-4
US-08-265-428-4
US-09-385-799-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -09-161-939A-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-890-980-2
US-08-890-979-2
US-09-032-894-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-241-581B-8
US-09-385-799-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -270-542-88
-270-542-86
                                                                                                                                                                                                                                                                                                                              572060 seqs, 82675679 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                 - protein search, using sw model
                                                                                                                                                                                                                                                                                           Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB
                                                                                                                                                                                                  US-08-765-108-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length
                                                                                                                                                                                                                                                                         BLOSUM62
                                                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                                 Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2447
2200
2200
2200
2200
2192
1453
741.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2447
```

ö

Gaps

ö

```
CITY: Atlanta
 TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-241-581B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                            Query Match
                                                                                                                                                           Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 3
                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                           240
                                                                                                                                                                                                                          240
                                                              120
                                                                             61 VPFYLSVYFFEVVNPNEVLAGGKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                              121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVIMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                      241 SKIDYWHSEQCHMINGTSGQMWAPPMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                       FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTWGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                               9
                  1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                        181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKANGL
                                                                                                                                                                                                                                                                            241 SKIDYWHSEQCNMINGTSGQMWAPPMTPESSLEPFSPEACRSMKLTYNESRVFGIPTYR
MGGSSRARWVALGLGALGLLFAALGVVM1LMVPSL1KQQVLKNVR1DPSSLSFGMWKE1P
                                                             VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                         181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                      LINPNPKEHSLFLDIHPVTGI PMNCSVKMQLSLYIKSVKGI GQTGKI EPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 4, Application US/08749907
Patent No. 5962322
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS: ADDRESSE: Patrea L. Pabst, Arnall Golden & Gregory STREET: 2800 One Atlantic Center STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC_COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Atlanta
STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-749-907-4
                                                              61
                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                 g
                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                          셤
                                                             ð
                                                                                  원
                                                                                                                        ઠે
```

```
ó
                                                                                                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FTAPDILFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                VPFYLSVYFFEVVNDNEVLNGQKPVVRERGPYVYREFRQKVNI TFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                       1 MGGSSRARWVALGEGALGELFRALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                      1 MGGSSRARWVALGLGGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SKIDYWHSEOCNMINGTSGOMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361 INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 WGYDDFFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                      ö
                                                                                                              for the
                                                                                                                                                                                                                    Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 8, Application US/09241581B
Patent No. 6350859
GENERAL INFORMATION:

APPLICANT: Massachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea I. Pabst
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
MOLECULE TYPE: protein
| PRATURE:
| NAME/KEY: misc. feature
| LOCATION: 1..509
| OTHER INPORMATION: /Function = "Amino acid sequence for OTHER INPORMATION: murine Scavenger Receptor Class BI."
                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/241,581B
                                                                                                                                                                                              Local Similarity 100.0%; Score 2681; DB 1;
Local Similarity 100.0%; Pred. No. 1.7e-284;
les 509; Conservative 0; Miamarchar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481 SODKEALQAYSESLMSPAAKGTVLOEAKL 509
```

```
181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGBIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FTAPDTLPANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361 LNPNPKEHSLFLDIHPVTGIPMNCSVKWQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: /Function = "Amino acid sequence for the murine Scavenger Receptor Class BI." SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 509;
Pabst, Arnall Golden & Gregory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                              OPERATING SYSTEM: PC_DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,799
FILING DATE: 30-Aug-1999
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 100.0%; Score 2681; DB 2; Best Local Similarity 100.0%; Pred. No. 1.7e-284; Matches 509; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/749,907
FILING DATE: 15-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: MIT7538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
                                                                                                                                                    ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 509 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 1..509
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                              CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAMB/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-385-799-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301 PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                            ; the murine Scavenger Receptor Class Bl." ; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4, Application US/09385799
Patent No. 6962688
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 2681; DB 2;
Pred. No. 1.7e-284;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 SÓDKEALQAYSESLMSPAAKGTVLÓEAKL 509
                                                                      NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: misc. feature
                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.0%;
Matches 509; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
```

셤

ð

ठ

ò

ö

Gaps

```
361 LNPNPKEHSLFLDIHPVTGIPMNCSVKWQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                421 AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCFLFWSGSKKG 480
241 SKIDYWHSEQCNMINGTSGQWWAPFWTPESSLEFFSPBACRSWKLTYNESRVFEGIPTYR 300
                                                                                                                                                                LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                      421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2, Application US/08559505
Patent No. 592533
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Susan L. Acton, Attilio Rigotti, Helen H. APPLICANT: Monty Krieger, Susan L. Acton, Attilio Rigotti, Helen H. TITLE OF INVENTION: METHODS FOR MODULATION OF LIPID UPTAKE NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /function= "Amino acid sequence for the Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
NAMMS/KEX: Domain
LOCATION: 9.32
OTHER INFORMATION: /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTER: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/559,505
FILING DATE: 29-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INPORMATION:
NAME: PADSE, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/POCKET NUMBER: MIT7150
TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                         481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : 509 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: misc feature
LOCATION: 1..509
OTHER INFORMATION: /fur
OTHER INFORMATION: Hame
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
NAME/KEY: Domain
LOCATION: 440..464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Atlanta
STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HYPOTHETICAL:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-559-505-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGIH:
                                                                          301
                                                                                                                                                                361
                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                   셤
                                                                                                                  엄
                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                             ð
                                                                          ઠે
                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
    61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /Function = "Amino acid sequence for
the murine Scavenger Receptor Class BI.
                                                                                                                                                                                                                   Sequence 8, Application PC/TUS9507721
GENERAL INFORMATION:
APPLICANT: Massachusetts Institute of Technology
TITLES OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.25

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION NUMBER: PCT/US95/07721

FLING DATE:

FLING DATE:

CLASSIFICATION:

NAME: Pabet, Patrea L.

REGISTRATION NUMBER: 31,284

REFERENCE/DOCKET NUMBER: 31,284

REFERENCE/DOCKET NUMBER: MIT6620

TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 2681; DB 4;
100.0%; Pred. No. 1.7e-284;
tive 0; Mismatches 0;
                                                                                                    181 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                          SODKEAIOAYSESLMSPAAKGTVLOEAKL
                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (404) 873-8794
TELEPAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : 509 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc. feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 100.
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: 1.509
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Georgia
: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Atlanta
STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCT-US95-07721-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                셤
                                                                        ઠ
                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
```

```
YSTEM: PC_DOS/MS-DOS
Patentin Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Putative
                                                                                                                            CLASSIFICATION: 435
ATTONEY/AGENT INDORMATION:
NAME: Pabst, Patrea 1,284
REGISTRATION NUMBER: 31,284
REPRENCE/OCKET NUMBER: MIT7538
TELECOMMUNICATION:
TELECHONE: (404) 872-8794
                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE:
OPERATING SYSTEM: PC-DOS/WG-SOPTWARE: PAtental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note=
                                                                                                                                                                                                                                                        TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                             internal
                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: 1..385
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 21..470

JOTHER INFORMATION:
OTHER INFORMATION:
CHER INFORMATION:
US-08-749-907-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: 1.509
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 9..32
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
                                                                                                                                                                                                                                                                                                                                 TYPE: ami)
TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         슝
                                                                                                                                                                                                  /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide
                                                                                                              repre
                                                                                    /note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCPLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                          VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                              WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FOPDXSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHPYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                       241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                  1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2, Application US/08749907
Patent No. 5962322
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
                   /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                         91.3%; Score 2447; DB 1; Length 509;
llarity 89.0%; Pred. No. 7.4e-259;
Conservative 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SODKEAIQAYSESIMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                 NAME/KEY: Modified-site
LOCATION: 1..385
OTHER INFORMATION: 212-21.
OTHER INFORMATION: N-11nk
FRATURE:
NAME/KEY: Modified-site
LOCATION: 21..470
OTHER INFORMATION: N-11nk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                 OTHER INFORMATION: PEATURE:
                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 453; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Atlanta
STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-749-907-2
                                                                                                                                                                                                                                       US-08-559-505-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
```

```
/note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-? potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "The cysteines at positions 21,
251, 280, 321, 323, 334, 384 and 470 represent potential disul
linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGEPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPBACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKIDYWHSEQCHMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WGYEDPFVNFINKYLPDMFPIKGKEGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                         domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 509
/function= "Amino acid sequence for t
Hamster Scavenger Receptor Class B-I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21; Indels
                                                                                                                                                           /note= "Putative transmembrane
                                                                                                                                                                                                                                                                                         transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91.3%; Score 2447; DB 1;
89.0%; Pred. No. 7.4e-259;
iive 35; Mismatches 21;
```

360 360 420 420 480

```
241 SKVNYWHSEQCHMINGTSGQMWAPPMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                    LINFDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPFLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                               421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                              301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                      361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4, Application US/08890979
Patent No. 6030778
GENERAL INFORMATION:
APPLICANT: Acton, Susan L.
APPLICANT: Ordovas, Jose M.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS TITLE OF SEQUENCES:
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELIOT LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             91.3%; Score 2447; DB 2; 89.0%; Pred. No. 7.4e-259;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35; Mismatches
                                                                                                                                                                                                                                                                                                                                                      481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                           481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109-2170
COMPUTER: READBAILE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Ver
APPLICATION NUMBER: US/08/890,979
FILING DATE: 10-UUL-1997
CLASSIFICATION: 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: FOLEY, HOAG & ELLOT LLP
STREET: One Post Office Square
CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: ARTOLd, Beth E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: MIA.
TELECHONE: 617-832-1000
TELEPHONE: 617-832-7000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 35,430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               509 amino acide
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 89.0
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
US-08-890-979-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-890-979-4
                                                         241
                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                       g
                                                                                                                              δ
                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                    8
                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                      420
                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                             421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                        LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Score 2447; DB 1; Length 509;
; Pred. No. 7.4e-259;
35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/08890980
Patent No. 5998141
GENERAL INFORMATION:
APPLICANT: Acton, Susan L.
TITLE OF INVENTION: SR-B1 NUCLEIC ACIDS AND USES THEREFOR NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC_compatible
OPERATING SYSTEM: PC_DOS/MS_DOS
SOFTWARE: Patentin Releage #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION WHERE: US/08/890,980
FILING DATE: 10-JUL-1997
CLASSIFICATION: 435
                                                                                                                                                                                                                      481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: ATNOId, Beth B.
REGISTRATION NUMBER: 35,430
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-832-1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: One Post Office Square CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          91.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 89.0%
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               509 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 02109-2170
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                 US-08-890-980-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-890-980-4
                                                                        361
                                                                                                             361
                                                                                                                                                                                                                                                          481
 301
                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                    셤
                                                                        ò
                                                                                                     셤
                                                                                                                                             ò
                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
```

셤

ઠે

g

ò 셤 8 g δ 셤 8

ઠે

```
240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VPFYLSVYFPEVVNPSEILKGEKPVVRERGPYVYRERRHKANITFNDNDTVSFVEHRSLH 120
                                        300
                                                                            360
                                                                                                       420
                                                                                                                                                                     AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 FQPDRSHGSESDYIILPNILVLGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMANSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 SKVNYWHSEQCNMINGTSGQMMAPPMTPQSSLEFFSPEACRSMKLTYHDSGVPEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FTAPKTLFANGSVYPPNEGFCDCLESGIONVSTCRPGAPLFLSHPHFYNADPVLSEAVLG 360
       SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                          AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SKIDYWHSEQCHMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLAGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                          241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                     LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFARMKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-031-626-4

Sequence 4, Application US/09031626

Sequence 4, Application US/09031626

Patent No. 6228581

GENERAL INFORMATION:

APPLICANT: Acton, Susan L.

APPLICANT: Ordovas, Jose M.

TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND

TITLE OF INVENTION: DARBOSCULAR DISORDERS

FILE REPERENCE: MIA-005.04

CURRENT FILIAG DATE: 1998-02-27

CURRENT FILIAG DATE: 1998-02-27

EARLIER PILIAG DATE: 1997-07-10

NUMBER OF SEQ ID NOS: 121

SOUTHARE: PatentIn Ver. 2.0

SEQ ID NO 4

LENGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       91.3%; Score 2447; DB 2;
89.0%; Pred. No. 7.4e-259;
tive 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                   SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity · 89.0°
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: PRT
; ORGANISM: Human
US-09-031-626-4
                                                                                                                                                                                      361
                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                   481
       241
                                                                            301
                                                                                                                                                   361
                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                              셤
                                                                            ઠે
                                                                                                       셤
                                                                                                                                          ઠે
                                                                                                                                                                                  원
                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                               240
                                                                                                                                                                                                                      SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                             FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                    61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREPRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                 AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                     #GYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTCVQNFSKIHLVDRWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                        POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                 WGYDDPFVHPLNTYLPDMLP1KGKFGLFVGMNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           91.3%; Score 2447; DB 2; Length 509;
89.0%; Pred. No. 7.4e-259;
ive 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INPORMATION:
APPLICANT: Acton, Susan L.
TILLE OF INVENTION: SR. 91
FILE REPERENCE: MAL-005.03
CURRENT APPLICATION NUMBER: US/09/032,894
CURRENT PILING DATE: 1998-02-27
EARLIER PILING DATE: 1998-07-10
NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 4, Application US/09032894
Patent No. 6130041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 89.0%
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Human
US-09-032-894-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-032-894-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                    181
                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                        121
                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
```

g

셤 ò g ò 요 ठ 셤 ò

ઢ

```
61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFWNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 FQPDRSHGSESDYIILPNILVLGGAVMESKSAGLKLMYTLGLATLGGRAFMRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361 INPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLMFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 SKVNYWHSEQCNMINGTSGQMMAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                  Gaps
                                             LOCATION: 21..470
OTHER INFORMATION: /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide
                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                  21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/265,428
                                                                                                                                                                                                                                  Query Match 91.3%; Score 2447; DB 2; Best Local Similarity 89.0%; Pred. No. 7.4e-259; Matches 453; Conservative 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4, Application US/08265428

Sequence 4, Application US/08265428

Batent No. 6429289

GENERAL INFORMATION:

APPLICANT: Krieger, Monty

TITLE OF INVENTION: Class BI Scavenger Recepto:
NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSER: Patrea L. Pabst

STREET: 1100 Peachtree Street, Suite 2800

CITY: Atlanta

STRTE: Georgia

COUNTY: USA

ZIP: 30309-4530

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: TRM PC COMMONSTIALA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                         linkages."
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                        NAME/KEY: Modified-site
                                                                                                                                                                                      US-09-241-581B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-265-428-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                480
                                                                     361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEOSG 420
                                           421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQBKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: /function= "Amino acid sequence for the Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: Modified-site
LOCATION: 1.385
OTHER INFORMATION: /note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Massachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 9..32
OTHER INFORMATION: /note= "Putative transmembrane
domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 440..464
OTHER INFORMATION: /note= "Putative transmembrane
domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/241,581B
FILING DATE: 02-Feb-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Parrea L. Pabet
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                         481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                      481 SODKEAIQAYSESLMSPAAKGTVLOEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
PUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                   Sequence 4, Application US/09241581B Patent No. 6350859 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc feature
LOCATION: 1..509
OTHER INFORMATION: /fur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 509 amino acida
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                  US-09-241-581B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPI
                                             ò
                                                                                      셤
                                                                                                                                         ઠ
                                                                                                                                                                             셤
```

```
421 AMGGEPLNTFYTQLVLMPQVLQYVQYVLLGLGGLLLLVPVIYQLRSQEKCFLFWSGSKKG 480
361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                      /note= "Putative transmembrane domain.
                                                                                                                                                                                                                                                                                                          Sequence 2, Application US/09385799

Patent No. 6962688

GENERAL INFORMATION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS: 4

CORRESPONDENCE ADDRESS: 4

CORRESPONDENCE ADDRESS: 5

STREET: 2800 One Atlantic Center

STREET: 2800 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: Modified-site
LOCATION: 1..385
OTHER INFORMATION: /note= "Positions 102-104, 108-110,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,799
FILING DATE: 0-Aug-1999
CLASSIFICATION: 435
                                                                                                                                                                                                            481 SODKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hamster Scavenger Receptor Class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                  481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8794
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 15-NOV-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: 9..32
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 1..509
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                 US-09-385-799-2
                                                                                421
                                                                                                                                                                                                                                                                             RESULT 14
                                   셤
                                                                                                             셤
                                                                                                                                                                ઠે
                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257,310-312, 330-332 and 383-385 represent potential N-linked glycosylatio
                                                                                                                                                                                                                                                                                                                                                                                                                         /function= "Amino acid sequence for the Hamster Scavenger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 WGYEDPFVNFINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MCGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note= "Putative transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "Putative transmembrane
domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   91.3%; Score 2447; DB 2;
89.0%; Pred. No. 7.4e-259;
ative 35; Mismatches 21;
                                                   NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MITG620
TELECOMMUNICATION INPORMATION:
TELEPAX: (404) 815-6508
INPORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 509 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: Modified-site
LOCATION: 21.470
OTHER INFORMATION: /note=
OTHER INFORMATION: potent.
                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 89.0%
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc feature
LOCATION: 1..509
OTHER INFORMATION: /fw
                                                                                                                                                                                                                                                                             protein NO
                                                                                                                                                                                                                                                                                                                                         internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Domain
LOCATION: 440..464
OTHER INFORMATION: /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: 1..385
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: 9.32
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Domain
                 CLASSIFICATION:
                                                                                                                                                                                                                                                                                      MOLECULE TYPE: HYPOTHETICAL: NG PRAGMENT TYPE: HEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-265-428-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

```
61 VPFYLSVYFFEVVNPNEVLNGOKPVVRERGPYVYREFROKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Positions 102-104, 108-110, 173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                               /function= "Amino acid sequence for the Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Putative transmembrane
domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "Putative transmembrane
domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                91.3%; Score 2447; DB 4;
89.0%; Pred. No. 7.4e-259;
iive 35; Mismatches 21;
                                                          ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPRAK: (404) 873-8794
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
APPLICATION NUMBER: PCT/US95/07721 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: Modified-site
LOCATION: 1.385
OTHER INFORMATION: /note=
OTHER INFORMATION: 173-17:
OTHER INFORMATION: 310-31;
OTHER INFORMATION: potent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PEATURE:
NAME/KEX: Modified-site
LOCATION: 21..470
OTHER INFORMATION: /note=
OTHER INFORMATION: 21, 25,
OTHER INFORMATION: 470 reg
OTHER INFORMATION: 11nkag
                                                                                                                                                                                                                                                LENGTH: 509 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity o.v. Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: 440..464
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 1.509
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: 9.32
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCT-US95-07721-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
  173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represend
                                                          NAME/KEY: Modified-site
LOCATION: 21..470
OTHER INFORMATION: /note= "The cysteines at positions 21,
251, 280, 321, 323, 334, 384 and 470 represent potential disulfide linkages."
                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPBACRSWKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                               1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                         91.3%; Score 2447; DB 2; Length 509; 89.0%; Pred. No. 7.4e-259; Artive 35; Mismatches 21; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application PC/TUS9507721
GENERAL INFORMATION:
APPLICANT: Messachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSE PATERE L. Pabst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 30309-3450

ZIP: 30309-3450

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
          potential N-linked glycosylation sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                                                                                                                Matches 453; Conservative
                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-345C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 15
PCT-US95-07721-4
                                                                                                                                                                                   US-09-385-799-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

ö

Gaps ö

```
        Qy
        301 FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360

        Db
        301 FTAPTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360

        Qy
        361 LNPDNFREHSLPLDIHPVTGIPMNCSVXMQLSLYKSVKGIGQTGKIEPVVLPLLWFEQSG 420

        Db
        361 LNPDRFHSLFLDIHPVTGIPMNCSVXLQISLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420

        Qy
        421 AMGGKPLSTFYTQLVLMPQVLHYAQVYLLGICGLLLIVPIICQLRSQEKCFLFWSGSKKG 480

        Db
        421 AMGGEPLNTFYTQLVLMPQVLHYAQVYLLGICGLLLIVPIICQLRSQEKCFLFWSGSKKG 480

        Qy
        481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509

        Db
        481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
```

Search completed: February 23, 2006, 12:47:16 Job time : 35 Becs

THIS PAGE BLANK (USPTO)

```
361. LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 509; Conserv
TYPE: PRT
ORGANISM: Mouse
                                                                                                                                                                                                                                       US-09-148-012-4
                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-148-012-4
 741.5
741.5
682.5
677
677
677
642.5
585
585
530.5
530.5
5318.5
518.5
518.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    음 장
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                52676, A
12, Appl
12, Appl
568, App
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
                                                                ); Search time 121 Seconds
(without alignments)
1757.646 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                         Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                           1 MGGSSRARWVALGLGALGLL.....YSBSLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                     Published Applications AA Main:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*

1: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*
          5.1.7
Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-148-012-4
US-10-178-6-11-4
US-10-176-6-13-4
US-10-706-073-4
US-10-93--037-4
US-10-93--037-4
US-10-93--037-4
US-10-93--037-4
US-10-16-48-012-2
US-10-16-48-63-2
US-10-16-86-3-2
US-10-16-86-3
US-10-16-86-3
US-10-16-86-3
US-10-16-86-3
US-10-16-86-3
US-10-16-86-3
US-10-16-86-3
US-10-11-116-86-3
US-10-172-116
US-10-172-116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-313-641-12
US-10-428-551-12
US-10-322-281-568
US-10-210-172-118
                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                             1867569 seqs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
         GenCore version
Copyright (c) 1993 - 2006
                                                                   2006, 12:46:19
                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                               sw model
                                                                                                                                                         Gapop 10.0 , Gapext 0.5
                                               protein search, using
                                                                                                                                                                                                                   length: 0
length: 2000000000
                                                                                                       US-08-765-108-8
2681
                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                   February 23,
                                                                                                                                                BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                              Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2447
2200
2200
2200
2200
2193
2193
2192
2192
2160
2002:5
2002:5
1976
1976
                                                                                                                                                                                                                    seq
seq
                                                                                                        Title:
Perfect score:
                                                                                                                                               Scoring table:
                                               ı
                                                                                                                                                                                                                   0B
0B
                                               OM protein
                                                                                                                             Sequence:
                                                                                                                                                                             Searched:
                                                                                                                                                                                                                  Minimum |
Maximum |
                                                                                                                                                                                                                                                                                       Database
                                                                   Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                             Result
No.
```

```
Sequence 4, Application US/09148012;
Sequence 4, Application US/09148012;
Patent No. US20020099040A1
GENERAL INFORMATION:
APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptives And
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REFERENCE: MIT/150CIP2
CURRENT APPLICATION NUMBER: US/09/148,012
CURRENT FILING DATE: 1998-09-04
EARLIER PPLICATION NUMBER: 60/057,943
EARLIER PILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 7
SEQ ID NO 4
IENGTH: 509
                                      Ap
Appli
Ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VPFYLSVYFFEVVNPNEVINGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SKIDYWHSEQCHMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                        21, Appl
45, Appl
2, Appli
44, Appl
3022, Ap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNI TFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MGGSSRARWVALGLGALGLLFAALGVVM11.MVPSL1KQQVLKNVR1DPSSLSFGMWKE1P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                             Sequence
Sequence
Sequence
Sequence
                                                                                                                                   Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 2681; DB 3;
100.0%; Pred. No. 7.1e-255;
ive 0; Mismatches 0;
US-10-794-899-90
US-10-403-571-158
US-10-048-917-1
US-10-048-917-1
US-10-372-683-45
US-10-388-593-2
US-10-196-703-44
US-10-196-703-44
US-11-097-143-8385
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
US-11-097-143-16122
                                                                                                                                                                                                                                                                                                                                                                                                                       ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
```

```
APPLICANT: Krieger, Monty
APPLICANT: Krieger, Monty
APPLICANT: Krieger, Monty
APPLICANT: Miettinen, Helena
TITLB OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY
FILE REPERRENCE: MIT 9094
CURRENT APPLICATION NUMBER: US/10/164,863
CURRENT APPLICATION NUMBER: US 09/148,012
PRIOR APPLICATION NUMBER: US 09/148,012
PRIOR PILING DATE: 1998-09-04
PRIOR PILING DATE: 1998-09-04
PRIOR PILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO extend 3.1
                                                181 WGYDDPFVHFLMTYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                               301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPNEVLNGOKPVVRERCPYVYREFROKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 WGYDDFFVHFLNTYLPDMLPIKGKFGLFVGMNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                             PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361 INPPREHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLKSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKVVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                             SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                          WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 2681; DB 4;
Similarity 100.0%; Pred. No. 7.1e-255;
09; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 4, Application US/10164863; Publication No. US20030232879A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 100.'
Matches 509; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Mus musculus US-10-164-863-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-164-863-4
                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                          181
                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                      ò
                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                     421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: 1..509
OTHER INFORMATION: /Function = "Amino acid sequence for the murine Scavenger Receptor Class BI."
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKOVVKIDPSSLSFGWWKEIP
                                                                                                       421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application US/10178611
Publication No. US20030167475A1
GENERAL INFORMATION:
APPLICANT: MONTY Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 100.0%; Score 2681; DB 4; Length 509; Best Local Similarity 100.0%; Pred. No. 7.1e-255; Matches 509; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/178,611
FILING DATE: 24-Jun-2002
CLASSIFICATION: <underween classification with the compatible comp
                                                                                                                                                                                                                                                                             481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                          SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Pabst, Patrea L. REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc. feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 509 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (404) 873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-178-611-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-178-611-4
                                         361
                                                                                                                                                                                                                                          481
                                                                                                       ò
                                                                                                                                                              g
                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
```

Db 361 INPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420 Qy 421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480	RESULT 5 US-10-933-037-4 Sequence 4, Application US/10933037 Sequence 4, Application US/10933037 Publication No. US20050136005A1 GENERAL INFORMATION: APPLICANT: Wonty Krieger, Attilio Rigotti, and Karen Kozarsky TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL NUMBER OF SEQUENCES:	O O	1 61 61 121 121
	Qy         421 AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQBKCFLFWSGSKKG 480           Db         421 AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQBKCFLFWSGSKKG 480           Qy         481 SQDKEAIQAYSESLMSPAAKGTVLQBAKL 509           Db         481 SQDKEAIQAYSESLMSPAAKGTVLQBAKL 509	US-10-706-73-4	241 SKILDYWHSEQCUMINGISGOMARFMYESSLEFFSPRACKSMALTYNESKYFEGIPTYR  241 SKILDYWHSEQCUMINGISGOMARFMYESSLEFFSPRACKSMALTYNESKYFEGIPTYR  301 FTAPDTLFANGCVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG

셤 ઠે 원 ò 원 ð 유 8 셤

8 셤

```
365 LQPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWPEQSG 424
                                                                                                                                                                                                                                                                                                                                       Sequence 2, Application US/09148012

Patent No. US20020099040A1

GENERAL INFORMATION:
APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptives And
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REPERENCE: MT7150C172
CURRENT APPLICATION NUMBER: US/09/148,012
CURRENT FILING DATE: 1998-09-04

EARLIER APPLICATION NUMBER: 60/057,943

EARLIER FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 7

SOFTWARE: PATENTIN OF 2.0
                                                                           421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                           481 SQDKEAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                        485 SODKEALQAYSESLMSPAAKGTVLQEAKL 513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (330)..(332)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: (102)..(104)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: CARBOHYD
LOCATION: (108)..(110)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (173)..(175)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (212)..(214)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: CARBOHYD
LOCATION: (227)..(229)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: (255)..(257)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (310)..(312)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (9)..(32)
OTHER INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (440)..(464)
OTHER INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
NAME/KEY: TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
NAME/KEY: TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Hamster
                                                                                                                                                                                                                                                                                               RESULT 7
US-09-148-012-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                           ð
                                                                                                                        셤
                                                                                                                                                                           ð
                                                    240
                                                                                                    300
                                                                                                                           SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYWESRVFEGIPTYR 300
                                                                                                                                                                                                 360
                                                                                                                                                                                                                           FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                         421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VPFYLSVYFEVVNPNEVLNGQKPVVRERGPYVYRERQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                69 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  189 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGYQNFSRIHLVDKWNGL 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKIDYWHSEQCNMINGTSGQMWAPPMTPESSLEFFSPEACRSMKLTYNESRVFEGIP--Y 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       129 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGBIL 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            68
                                                                                                                                                                                                                                                                                                                        421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGGLLLLVPIICQLRSQEKCFLFWSGSKKG
  WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVONFSR1HLVDKWNGL
                           MCYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                  SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                               PTAPDTLPANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                            361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MGGSSRARWV--GLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 565, Application US/1032281
; Publication No. US20040126762A1
; GENERAL INPORMATION:
; APPLICANT: David W. Morris
; APPLICANT: David W. Morris
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 97.2%; Score 2605; DB 4; Length 513; Best Local Similarity 98.4%; Pred. No. 2.2e-247; Matches 501; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ) ORGANISM: Mus musculus
US-10-322-281-565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-322-281-565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 249
                                               181
                                                                                                  241
                                                                                                                                               241
                                                                                                                                                                                               301
                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 307
```

8 g ò 원 8 셤 ò 셤 δ 유

```
61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSARARWVAVGLGUVGLLCAVLGVVMILVMPSLIKQQVLKOVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 PTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLAMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                           APPLICANT: Acton, Susan L.
APPLICANT: Acton, Susan L.
APPLICANT: Ordovas, Jose M.
APPLICANT: Ordovas, Jose M.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILE REPERRANCE: MAI-172CP2
CURRENT APPLICATION NUMBER: US/09/779,152
CURRENT PILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: 08/890,979
PRIOR FILING DATE: 1997-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;; Score 2447; DB 3;
;; Pred. No. 8.3e-232;
35; Mismatches 21;
481 SQDKEAIQAYSESIMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SQDKRAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481 SODKEALQAYSESLMSPAAKGTVLOEAKL 509
                                                                                                               Sequence 4, Application US/09779152
Publication No. US20030044782A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 4, Application US/10023610 Publication No. US20030023059A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           91.3%;
89.0%;
                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 89.09
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 509
TYPE: PRT
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-779-152-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-023-610-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 INPOPREHSLFLDIHPVTGIPPNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121 FQPDRSHGSESDYIILPNILVLGGAVMÆSKSAGLKLMMTLGLATLGQRAFMRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FTAPKTLPANGSVYPPNEGFCPCLESGIQNVSTCRPGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIBPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91.3%; Score 2447; DB 3;
89.0%; Pred. No. 8.3e-232;
tive 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Potential 09-148-012-2
ION: (383)..(385)
INFORMATION: Potential
                                                                            LOCATION: (21)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (384)
OTHER INFORMATION: Potential
                                                                                                                                                                           OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                   WIHER INFORMATION: Potential
                                                                                                                                                                                                                                                          THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DIHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 89.0%
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PEATURE:
NAME/KEY: DISULFID
                                                         DISULPID
                                                                                                                                    NAME/KEY: DISULFID
                                                                                                                                                                                                                   DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                        PEATURE:
NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                 DISULFID
                                                                                                                                                                                                                                                                                                                                                                                DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                         NAME/KEY:
                                                                                                                                                                                                                                                                                                   NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                              AME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                      OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                           OCATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
```

셤

ઠે

8 8 8 8

à

```
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/178,611
FILING DATE: 24-Jun-2002
CLASSIPICATION: <Unknown>
                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/749,907
FILING DATE: «UNKNOWN»
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                            NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linkages."
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: Modified-site
LOCATION: 21..470
OTHER INFORMATION: /note
                                         ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc feature LOCATION: 1..509
OTHER INFORMATION: /fur
                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERRISTICS:
LENGHT: 509 amino acide
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                             873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION: 9.32
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 89.0
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           (404)
                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-178-611-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301 FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421 AMGGKPLSTFYTQLVLMPPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKOVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application US/10178611
Publication No. US20030167475A1
GENERAL INFORMATION:
APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Patrea L. Pabst, Arnall Golden & Gregory
STREET: 2800 One Atlantic Center
1201 West Peachtree Street
                                                                                                                                                                                                                                                                                                                                                                                                             .
0
                                                                                                                                                                                                                                                                                                                                                                    Query Match 91.3%; Score 2447; DB 4; Length 509; Best Local Similarity 89.0%; Pred. No. 8.3e-232; Matches 453; Conservative 35; Mismatches 21; Indels
APPLICANT: Acton, Susan L.

TITLE OF INVENTION: SR-BI NUCLEIC ACIDS AND USES THEREFOR TITLE REFERENCE: MIA-005.03

CURRENT APPLICATION NUMBER: US/10/023,610

CURRENT FILING DATE: 2001-12-17

CURRENT FILING DATE: 2001-12-17

EARLIER APPLICATION NUMBER: 09/032,894

EARLIER FILING DATE: 1998-02-27

EARLIER APPLICATION NUMBER: 08/890,980

EARLIER FILING DATE: 1997-07-10

NUMBER OF SEQ ID NOS: 121

SOFTWARE: PALENT 1997-07-10

SEQ ID NOS: 121

LENGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SODKEAIQAYSESLMSPAAKGTVLQBAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Atlanta
                                                                                                                                                                                                                                                                                                            , ORGANISM: Human
US-10-023-610-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-178-611-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

```
LOCATION: 1.385
OTHER INFORMATION: /note= "Positions 102-104, 108-110,
173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent
potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: /note= "The cysteines at positions 21,
251, 280, 321, 323, 334, 384 and 470 represent potential disulfide
linkaqes."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPSELLKGEKPVVRERGBYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
OTHER INFORMATION: /function= "Amino acid sequence for the Hamster Scavenger Receptor Class B-I."
                                                                                                                                                                                                                                                                                       /note= "Putative transmembrane domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 91.3%; Score 2447; DB 4; Length 509; 89.0%; Pred. No. 8.3e-232; tive 35; Mismatches 21; Indels (
                                                                                                                                                             /note= "Putative transmembrane
```

```
VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 WGYEDPFVNPINKYLPDMFPIKGKFGLFVEMNNSDSGLFTVFTGVQNFSKIHLVDRWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181 WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKIDYWHSEQCHMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 509;

    Score 2447; DB 4; Length 5
    Pred. No. 8.3e-232;
    Mismatches 21; Indels

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91.3%;
89.0%;
ON: (227)..(229)
INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: DISULFID
LOCATION: (21)..(21)
OTHER INFORMATION: Potential
                                                                                     LOCATION: (255)..(257)
OTHER INFORMATION: Potential
                                                                                                                                                                      ION: (310)..(312)
INFORMATION: Potential
                                                                                                                                                                                                                                                         ION: (330)..(332)
INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                             CCATION: (383)..(385)
THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ION: (251)..(251)
INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OCATION: (321)..(321)
THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OCATION: (323)..(323)
THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OCATION: (334)..(334)
THER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (384)..(384)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; LOCATION: (470)...(470); OTHER INFORMATION: Potential US-10-164-863-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ION: (280)..(280)
INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 89.0%
Matches 453; Conservative
                                                               NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IAME/KEY: DISULFID
                                                                                                                                                  NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                     NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OCATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 2, Application US/10164863
Publication No. US20030232879A1
GENERAL INFORMATION:
APPLICANT: Krieger, Monty
APPLICANT: Krieger, Monty
APPLICANT: Miettinen, Helena
TITLE OF INVENTION: LIPID-ALTERING COMPOSITIONS FOR THE TREATMENT OF INFERTILITY
FILE REFERENCE: MIY 9094
CURRENT APPLICATION NUMBER: US/10/164,863
CURRENT APPLICATION NUMBER: US 09/148,012
PRIOR FILING DATE: 1998-09-04
PRIOR FILING DATE: 1998-09-06
PRIOR FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
                      240
                                        300
                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                    FTAPKTLFANGSVYPPNEGFCPCLESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                               AMGCKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCPLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                       LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                        PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                     SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                    481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ION: (102)..(104)
INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OCATION: (212)...(214)
OTHER INFORMATION: Potential
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Cricetulus griseus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OCATION: (108)..(110)
WTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: (173)..(175)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ION: (9)..(32)
INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ION: (440)..(464)
INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'EATURE:
NAME/KEY: TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AME/KEY: TRANSMEM
                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                      361
                                                                                                   241
                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 2
```

```
APPLICANT: Krieger, Monty
TITLE OF INVENTION: SR-B1 Antagonist And Use Thereof As Contraceptives And
TITLE OF INVENTION: In The Treatment Of Steroidal Overproduction
FILE REFERENCE: MIT8299
CURRENT APPLICATION NUMBER: US/10/706,073
CURRENT FILING DATE: 2003-11-12
PRIOR PILING DATE: 1998-10-04
PRIOR FILING DATE: 1998-10-04
PRIOR FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
                                                                                                  481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                          481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                 Sequence 2, Application US/10706073; Publication No. US20040077526A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
NAME/KEY: CARBOHYD
LOCATION: (102)..(104)
OTHER INFORWATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: CARBOHYD
LOCATION: (255)..(257)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: CARBOHYD
LOCATION: (330)..(332)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: CARBOHYD
LOCATION: (383)..(385)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (212)..(214)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: CARBOHYD
LOCATION: (227)...(229)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (108)..(110)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (173)..(175)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KGY: CARBOHYD
LOCATION: (310)..(312)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
NAME/KEY: TRANSMEM
LOCATION: (9) .. (32)
OTHER INFORMATION: Putative
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: TRANSMEM
LOCATION: (440)..(464)
OTHER INFORMATION: Putative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Hamster
                                                                                                                                                                                    JS-10-706-073-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PEATURE:
                                                                                                셤
                       셤
                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/10212848
Publication No. US20040023225A1
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING RISK FACTORS
TITLE OF INVENTION: POR ABNORMAL LIFID LEVELS AND THE DISEASES AND DISORDERS
TITLE OF INVENTION: ASSOCIATED THEREWITH
FILE REFERENCE: MMI-012
CURRENT APPLICATION NUMBER: US/10/212,848
CURRENT PILING DATE: 2002-08-05
NUMBER OF SEQ ID NOS: 121
SOFTWARE: PATENTIN Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                   361 LNPDPREHSLFLDIHPVTGIPMNCSVKLQISLYIKAVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDIVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 FQPDRSHGSESDYIILPNILVIGGAVMMESKSAGLKLMMTLGLATLGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 SKVNYMHSEQCNMINGTSGQMMAPFMTPQSSLEPFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301 FTAPKTLFANGSVYPPNEGFCPCLESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 SKVNYWHSEQCNMINGTSGQMWAPFMTPQSSLEFFSPEACRSMKLTYHDSGVFEGIPTYR 300
                                                               360
                                                                               420
                                                                                                                                                                                                                                               61 VPFYLSVYFFEWINPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361 LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIBPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421 AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                            AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MGGSARARWYAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSSRARWYALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WCYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                            LNPNPKEHSLFLDIHPVTGIPMNCSVKMOLSLYIKSVKGIGOTGKIEPVVLPLLWFEOSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91.3%; Score 2447; DB 4; Length 509; 89.0%; Pred. No. 8.3e-232; tive 35; Mismatches 21; Indels
                                                                                                                                                                                                                                                                                                          481 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                 SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 89.0%
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 4
LENGIH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-212-848-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                            301
                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                        셤
                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                    ठ
                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                            8
                                                                                                名
                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

```
OTHER INFORMATION: /note= "Positions 102-104, 108-110,
173-175, 212-214, 227-229, 255-257, 310-312, 330-332 and 383-385 represent
potential N-linked glycosylation sites."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: 21..470
OTHER INFORMATION: /note= "The cysteines at positions 21, 251, 280, 321, 323, 334, 384 and 470 represent potential disulfide linkages."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: 9.32
OTHER INFORMATION: /note= "Putative transmembrane domain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "Putative transmembrane domain.
         RESULT 14
US-10-933-037-2; Sequence 2, Application US/10933037;
; Publication No. US20550136005A1;
; GENERAL INFORMATION:
; APPLICANT: Monty Krieger, Attilio Rigotti, and Karen Kozarsky
; TITLE OF INVENTION: METHODS FOR MODULATION OF CHOLESTEROL
; NUMBER OF SEQUENCES: 4
...mespondence Address: 4
...mespondence Address: 4
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mespondence Address: 7
...mesp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: PC_DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/933,037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91.3%; Score 2447; DB 5;
89.0%; Pred. No. 8.3e-232;
iive 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hamster Scavenger Receptor Class B-I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT7538
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIF: 30309-3450
UTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 02-Sep-2004
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (404) 873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 509 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        873-8795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: 440..464
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 1..509
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: 1.385
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HYPOTHETICAL: NO FRAGMENT TYPE: internal FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (404) 87
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 89.03
Matches 453; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: Georgia
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-933-037-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 SKVNYWHSEQCNMINGTSGQMWAPFWTPQSSLEPFSPEACRSMKLTYHDSGVPEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301 FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ၀
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSFAMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               91.3%; Score 2447; DB 4;
89.0%; Pred. No. 8.3e-232;
ive 35; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 SODKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: DISULFID
LOCATION: (470)
OTHER INFORMATION: Potential
                          LOCATION: (21)
OTHER INFORMATION: Potential
                                                                                                                   NAME/KEY: DISULFID
LOCATION: (251)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: (321)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (334)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (384)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                      LOCATION: (280)
OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 89.04
Matches 453; Conservative
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: DISULPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: DISULFID
                                                                                                                                                                                                                                                     NAME/KEY: DISULPID
                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-706-073-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EATURE:
                                                                                            EATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER
```

⋧ 셤 8 g 8 셤 ò 셤 ઠે 원 δ 요 8 셤 ò g ò

```
8 8
                                                                     유
성
                                                                                                                         8 8 8
                                                                                                                                                                                          요
                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                         8
셤
                                                                                                                                        240
                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                        480
                                                                                                                                                                                     VPFYLSVYFFEVVNPNEVLNGQXPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                     61 VPFYLSVYFFEVVNPSEILKGEKPVVRERGPYVYREFRHKANITFNDNDTVSFVEHRSLH 120
                                                                                     121 FOPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGORAFMNRTVGEIL 180
                                                                                                               180
                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                    FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP 60
                 9
      1 MGGSARARWVAVGLGVVGLLCAVLGVVMILVMPSLIKQQVLKNVRIDPSSLSPAMWKEIP
                                                                                                    1 MGCSAKARWAAGALGVAGLCAVLGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNNWKEIP
                                          VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH
                                                                                                                                       WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                      LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                                                                                                                        AMGGKPLSTPYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Acton, Susan L.
APPLICANT: Acton, Susan L.
APPLICANT: Acton, Jose M.
APPLICANT: Acton, Jose M.
TYTLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILE REPRENCE: MNI-172CP2
CURRENT APPLICATION NUMBER: US/09/779,152
CURRENT FILING DATE: 2001-02-08
PRIOR PILING DATE: 1997-07-10
NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LIBNGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            55; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  82.1%; Score 2200; DB 3; 79.6%; Pred. No. 1.9e-207; ative 49; Mismatches 55;
                                                                                                                                                                                                                                                                                                                                                                                                    SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                       SQDKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 2, Application US/09779152
Publication No. US20030044782A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 405; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Human
US-09-779-152-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                       181
                                                                                                                                                               181
                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local
                                                                                                                                                                                                                                                                                                                                                       쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                      ò
               ద
                                       8 8 8
                                                                                                        쉽
                                                                                                                                      8 8
                                                                                                                                                                               8
                                                                                                                                                                                                        g
                                                                                                                                                                                                                              જે
                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                     ò
```

```
300
                                                                                                                                            300
                                                                                                                                                                            360
                                                                                                                                                                                                           360
                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                        480
FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG
                                                                                                                                                                                                                                         LINPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGOTGKIEPVVLPLLMFEQSG
                                                                                                                                                                                                                                                                                                                           FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                                                                                                                                                                        181 WGYKDPLVNLINKYPPGMFPPKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGL
                                                                                                              SKIDYWHSEQCHMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                                                                                                                                                                                                                                                           AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                               WGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                        481 SQDKEALQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                        481 SKDKEAIQAYSESLMTSAPKGSVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                              completed: February 23, 2006, 12:51:25
le : 123 secs
                                                                                                                                                                                                           301
                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                           421
                                               181
                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Search cor
Job time
```

```
Sequence 219, App
Sequence 918, App
Sequence 2031, Ap
Sequence 10295, A
Sequence 4, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2992, Ap
Sequence 1512, Ap
Sequence 6, Appli
Sequence 5, Appli
Sequence 3, Appli
Sequence 1, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              200, App
26, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 12, Appl
                                                                                                            February 23, 2006, 12:47:29; Search time 11.5 Seconds (without alignments) 658.923 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                   1 MGGSSRARWVALGLGALGLL......YSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Published Applications AA New:*

1: /cgn2_6/ptodata/1/pubpaa/US08 NEW PUB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US06 NEW PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US07 NEW PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/PCT NEW PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/NEN PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/US10 NEW PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/US10 NEW PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/US10_NEW PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/US10_NEW PUB.pep:*
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-098-686-10289
US-10-055-877-200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JS-11-098-686-10461
                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-192-341-23
                                                                                                                                                                                                                                                                                                                                    117670 seqs, 14887254 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                             protein search, using sw model
                                                                                                                                                                                                                                                                                                 Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                         US-08-765-108-8
2681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query
Match Length DB
                                                                                                                                                                                                                                                                            BLOSUM62
                                                                                                                                                                                               Title:
Perfect score:
                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 80.5
80.5
80.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   84.5
84.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83.5
82.5
                                                                             OM protein
                                                                                                                                                                                                                                           Sequence:
                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Database
                                                                                                                    Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Result
```

Sequence 6, Appli	Sequence 13, Appl	Sequence 3, Appli	Sequence 31, Appl	Sequence 6, Appli	Sequence 13, Appl	Sequence 11, Appl	Sequence 4, Appli	. Sequence 53, Appl	1259	Sequence 218, App	Sequence 23, Appl	Sequence 10150, A	Sequence 2011, Ap	Sequence 25, Appl	Sequence 45, Appl	Sequence 14, Appl	Sequence 2, Appli	Sequence 10574, A	Sequence 1, Appli	•
US-11-186-999-6	US-11-186-999-13	US-10-935-494-3	US-10-935-494-31	US-10-942-072-6	US-10-942-072-13	US-10-942-072-11	US-11-186-999-4	US-11-113-424-53	US-11-054-515-1259	US-11-052-554A-218	US-11-142-700-23	US-11-098-686-10150	US-11-072-512-2011	US-11-142-700-25	US-11-207-626A-45	US-11-113-202-14	US-11-142-700-2	US-11-098-686-10574	US-10-957-351-1	•
7	7	9	9	9	9	9	7	7	7	7	~	7	7	7	7	7	7	7	9	
2458	2458	420	1394	1167	1167	1168	2455	2515	254	857	1081	1089	555	685	952	1342	304	685	1390	
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	2.9	2.9	5.9	2.9	2.9	2.9	2.9	5.9	2.9	2.9	
80.5	80.5	80	80	79.5	79.5	79.5	79.5	79.5	79	. 64	79	79	78.5	78.5	78.5	78.5	78	78	78	
26	. 27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	. 45	

```
61 VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 FQPSKSHGSESDYIVMPNILVLGAAVMMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIM 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MGYDDPFVHFLATYLPDMLPIKGKFGLFVGMANSNSGVFTVFTGVQNFSRIHLVDKWNGL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQOVLKNVRIDPSSLSFNMWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             56; Indels
                                                                                                                                                                                                                                                                                              APPLICANT: Schwartz, Daniel
APPLICANT: Buncan, Keith
APPLICANT: Balley, Kathy
APPLICANT: Balley, Kathy
APPLICANT: Balley, Kathy
APPLICANT: Ishida, Brian
ITILE OF INVENTION: Treatment for Dark Adaptation
ITILE OF INVENTION: Treatment for Dark Adaptation
FILE REBERENCE: HO-P02351US5
CURRENT PILION DATE: 2005-01-10
FRIOR APPLICATION NUMBER: US 10/428,551
FRIOR FILING DATE: 2003-05-02
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
FRIOR APPLICATION NUMBER: US 60/340,498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81.8%; Score 2192; DB 7; 79.4%; Pred. No. 4.5e-199; iive 49; Mismatches 56;
ALIGNMENTS
                                                                                                                                                                               Sequence 12, Application US/11055309A Publication No. US20050282750A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 79.4%
Matches 404; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: PRT
; ORGANISM: HUMAN
US-11-055-309A-12
                                                                                                                                                   US-11-055-309A-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-11-144-368-4
```

ö

Gaps

ö

```
ö
                                                                                                                  61 VPFYLSVYFFEVVNPNEVLNGOKPVVRERGPYVYREFROKVNITFNDNDTVSFVENRSLH 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FORDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLLVPIICQLRSQEKCFLFWSGSKKG 480
301 FVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG
                                                                                                  AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
0
                                                                                                                                                                                                                                                                                                                                     APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Stache-Crain, Susan
APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR PFLING DATE: 2004-04-07
PRIOR FILING DATE: 2004-04-07
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt_SEQ_genes Version 1.0
SOFTWARE: pt_SEQ_genes Version 1.0
SEQ ID NO 918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 56; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Score 2192; DB 6;
; Pred. No. 4.8e-199;
49; Mismatches 56;
                                                                                                                                                                                      481 SODKEAIQAYSESLMSPAAKGTVLQEAKL
                                                                                                                                                                                                                                                                                     ; Sequence 918, Application US/10821234; Publication No. US20050255114A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 79.4%;
Matches 404; Conservative 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-821-234-918
                                                                                                                                                                                                                                                                           US-10-821-234-918
                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     & A
                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                 8
                                                                 요
                                                                                                                                                                     ò
                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
TITLE OF INVENTION: BROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
FILE REFERENCE: D0273A CIP
CURRENT APPLICATION NUMBER: US/11/072,175
CURRENT FILING DATE: 2005-03-05
PRIOR FILING DATE: 2002-08-27
PRIOR FILING DATE: 2003-08-26
NUMBER OF SEQ ID NOS: 571
SOFTWARE: PATENT ON UNDER: US 10/648,593
PRIOR FILING DATE: 2003-08-26
NUMBER OF SEQ ID NOS: 571
SOFTWARE: PATENT ON UNDER: US 2003-08-26
NUMBER OF SEQ ID NOS: 571
LENGTH: 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FTAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 IPPYLSVYFFDVMNPSEILKGEKPQVRERGPYVYRESRHKSNITFNNNDTVSFLEYRTFQ 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          POPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEIL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYR 300
                                   300
                                                                  300
                                                                                                                     420
                                                                                                                                                                                        480
                                                                                                                                                                                                                                                       VPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLH 120
 WGYXDPLVNLINKYFPGMFPFKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGL 240
                                                                                                    FTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MGCSAKARWAAGALGVAGLICAVIGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNWWKEIP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MGYDDPFVHFLNTYLPDMLP1KGKFGLFVGMNNSNSGVFTVFTGVQNFSR1HLVDKWNGL
                                   SKIDYWHSEQCNMINGTSGQMWAPFWTPESSLBFFSPEACRSMKLTYNESRVFEGIPTYR
                                                                  241 SKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR
                                                                                                                                                                       LNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG
                                                                                                                                                                                                                                         AMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 81.8%; Score 2192; DB 7;
Best Local Similarity 79.4%; Pred. No. 4.5e-199;
Matches 404; Conservative 49; Mismatches 56;
                                                                                                                                                                                                                                                                                                                            SQDKEAIQAYSESLMSPAAKGTVLQEAKL 509
                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 219, Application US/11072175
Publication No. US20060029944A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , ORGANISM: Homo sapiens
US-11-072-175-219
                                                                                                                                                                                                                                                                                                                                                                                                             -11-072-175-219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301
 181
                                   241
                                                                                                    301
                                                                                                                                                                       361
                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                 8
                                                             원
                                                                                       ઠે
                                                                                                                           셤
                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                         ठे
```

ò

```
71 VILGTQKGDTIHIKECLITPKITNILSGNISIÝSIEVIQPIASIILQNEQKKNSKTTGYA 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       216 EDM-PYK----INTALLHDTSPLYDLFTNTKKTTFKVSGAIPTTNTANNITFDFTKLEK 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              271 DNSDKLTMHGQLHIEGTLPNGNTSIPILLSVPPTTTSSEDMTHPPPLLIKNSKLLFDKTH 330
345 -PHFYNADPVLSEAVLGLNP----NPKEHSLFLDIHPVTGIP----MNCSVKMQLSLYIK 395
                                           333 KPHYLGVD-----VAQGLEPSFLFHRKAEAVYPDTVALTFDPTHQWLSCVYK-DHSIYIW 386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93 VYREFROKVNITFNDNDTVSFVENRSLHFQPDKSHGSESDYIVLPNILVLGGSILMESKP 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           131 IPKQVSHLLQLI----TDSKLFIENGSITFQ-----NNDYCF--KIIGINGKI-----G 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VSLKLMMTLALVTMGQRAFMNRTVGEILWGYDDPFVHFLNT-------YL 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                174 VSKTLTSSLKL------TADBIIW-----BIMNTVSNNSSTAQKSIEKVOLHI 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              196 PDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFS-----RIHLVDKMNGL----SKIDY 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WHSEQCNM----INGT--SGQ-----MWAPFMTPES-SLEFFSPEACRSMKLTYNESR 291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             292 VFEGIPTYRFTAPDTLFANGSV-----YPPNEGFCPCRESGIQNVSTCRFGAPLFLSHP 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  331 IDLHGTIKNYDTLSNLFFDGTMDVKNFSFPYWFTFAROLPNGIOHALNOLSGEIKFTLSP 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14 LGIIVFFGITFYFIKQHPQYITNKILSTISKQLKDTSISANSIGFHI---VPFPKLYLTN 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----SVYFFEVWNPNEVL---NGQKPVVRERGPY 92
                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Kapur, Vivek and Gebhart, Connie J.
TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
FILE REFERENCE: 09531-128001
CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04
PRIOR FILING DATE: 2005-10-01
PRIOR PAPLICATION NUMBER: 05 (416,395)
PRIOR FILING DATE: 2002-10-04
PRIOR FILING DATE: 2002-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17 LGLL-FAALGVVMILMVPSLIKQQV-----LKNVRIDPSSLSFGMWKEIPVP-FYL--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 3.6%; Score 97; DB 7; Length 1075; Best Local Similarity 19.6%; Pred. No. 0.99; Matches 84; Conservative 65; Mismatches 146; Indels 134;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 11433
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10295
LENGTH: 1075
                                                                                                                                                                                                                                                                                                                                   Sequence 10295, Application US/11098686
Publication No. US20060024696A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , TYPE: PRT
, ORGANISM: Lawsonia intracellularis
US-11-098-686-10295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application US/11076187
Publication No. US20050244857A1
                                                                                                                       396 SVKGIGQTGKI 406
                                                                                                                                                                               387 DVKDINRVGKV 397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 : | | : | 399
391 QQVNAQKII 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 346 HFYNADPVL 354
                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    170 IVSMGYQHDMVL.--NWHDWKKDIVVASNKVSCRVIALSFSEDSSYFVTVG-----NRHVR 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGHVAYL----PDGKYIVILDPKENKQQHIFNTARKSLSALAFS-----PDGKYIVT---- 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           72 VVNPNEVLNGQKPVVR----ERGPYVYREFRQKVNITFNDNDTVSFVENRSLHFQPDKSH 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  128 ----GSESDYIVLPNILVLGGSILMESKPVSLKLMM-----TLALVTMGQRAFMNRTVG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          234 VDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEPFSPEACRSMKLTYNESRVF 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          288 EKWINLKVSLSSCLCVSQELI----PCGCTDGIVR-----IFQAHSLHYLANLP 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ----GE--NGHRPAVRIWDVEEKNQVAEMLGHKYGVA-------CVAFSPNMKH 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      178 EILWGYDDPFVHFL----NTYLPDMLPIKGKFGLFVCMNNSNSGVFTVFTGVQNFSRIHL 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 294 EGIPTYRFTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSH----- 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13 GLGALGLLFAALGVVMILMVPSLIKQQ-VLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFF 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
3.7%; Score 98.5; DB 7; Length 414;
Best Local Similarity 20.4%; Pred. No. 0.18;
Matches 88; Conservative 56; Mismatches 136; Indels 151; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ----AC----GRGRMAGSTFCVSYSGL
                                                              PRIOR APPLICATION NUMBER: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR PLILING DATE: 2001-01-25
PRIOR PILING DATE: 2001-11-05
NUMBER: OF SEQ ID NOS: 4096
SEQ ID NO 2031
LENGTH: 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/11/072,512 CURRENT FILING DATE: 2005-03-07
                                                                                                                                                                                                                                        Sequence 2031, Application US/11072512
Publication No. US20060029945A1
                                                                                                                                                                                                                                                                                                                                                                                                                                       ..., SHIZUKO
YAMAMOTO, JUN-ICHI
ISONO, YUUKO
'YEUK
                                                                                                                                                                                                                                                                                                                                APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YOSHIKAWA, TSUTOMU
DISUKA, MOTOYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAMECHIKA, ICHIRO
SEKI, NAOHIKO
                                                                                                                                                                                                                                                                                                                                                                                              OTSUKI, TETSUJI
WAKAMATSU, AI
SATO, HIROYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IRIE, RYOTARO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-072-512-2031
```

셤

8

8

ò

g δ 셤 ઠ

à

```
AMAMOTO, JUN-ICHI
SONO, YUUKO
IIO, YURI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       59; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           430 FYTQLVLMPQVL 441
                                                                                                          OTSUKA, KAORU
NAGAI, KEIICHI
                                                                                                                                                                             IRIE, RYOTARO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 59; Conserval
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-793-626-1512
                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                         APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                        APPLICANT
                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           696 DLYSIVCGKS-----TPEKEGEL---EGTTTKPLAPNPS--PS-PTPGFTFTLGFS 740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       650 LPQIENVKG-----TEDSGTTVLLPLVIFPGLCLLSLLPI-----GLMYRYQRWKS 695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      249 EQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFT---- 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                741 PVPSSTFTSSSTYTP--GDCP------NFAAPRREVAPPYQGADPILATA-LAS 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                362 NPNPKEHSLFLD-IHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              303 -APDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGL 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           786 DPIPNPLOKWEDSAHK----POSLDTDDPATLY------AVVENVPPLRWKE--- 827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       195 LPDMLPIKGKFGLFVGMNNSNSGV----FTVFTGVQNFSRIHLVDKWNGLS-KIDYWHS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 3.4%; Score 90; DB 7; Length 909; Best Local Similarity 23.9%; Pred. No. 3.6; Matches 67; Conservative 26; Mismatches 91; Indels
APPLICANT: No. Jan.
APPLICANT: Rosen, Craig A
APPLICANT: Rosen, Craig A
APPLICANT: Pan, James G
APPLICANT: Pan, James G
APPLICANT: Pan, James G
APPLICANT: Cartz, Reiner L
APPLICANT: Brit. Vishva M
TITLE OF INVENTION: Death Domain Containing Receptor—4
TITLE OF INVENTION: Death Domain Containing Receptor—7
TITLE OF INVENTION: Death Domain Containing Receptor—7
CURRENT APPLICATION NUMBER: 05/035,722
PRIOR FILING DATE: 1997-01-28
PRIOR FILING DATE: 1997-02-05
PRIOR FILING DATE: 1997-02-05
PRIOR FILING DATE: 1999-05-06
PRIOR FILING DATE: 1999-05-06
PRIOR FILING DATE: 2002-09-30
PRIOR FILING DATE: 2002-09-27
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
PRIOR PILING DATE: 2004-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 AMGGKPLSTFYTQLVLMP-----QVLHYAQYVLL 449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----FVRRLGLSPHEIDRLELQNGRCLREAQYSML 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2992, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAL, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: SATO, HIROYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
US-11-076-187-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-11-072-512-2992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
```

```
13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                293 FEGIPTYRFTAPDTLFANGSVYPPNE-GFCPC-RESGIQNVSTCRFGAPLFLSHPHFYNA 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              139 TEAITQIRAKGLQTAVLSNNFYLPNQKSFLPLDRKQFDVIVBSCMEG--ICKPDPRIXK- 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          196 --- LCLEQLGLQPS---ESIFLDDLGTNLKEAARLGİHTIKVNDPETAVKELEALLGFTL 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               378 -TGIPMNCSVKMQLSL-----YIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPLST 429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1512, Application US/10793626

Publication No. US2005025478A1

GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAHFYLOCCCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
TITLE OF INVENTION: STAHFYLOCCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT PILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PATENTIN VET. 2.1
SEQ ID NO 1512
LENGTH: 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       351 DPVLSEAVLGLNPNPKEHSLFLD------IHPV------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            82;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3.3%; Score 88; DB 7; Length 890; 23.4%; Pred. No. 5.4; tive 22; Mismatches 89; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                253 MINGTSGOMWAPFMTPESSLEFFSPE---ACRSMKLT----
                                                                                                                                                                                                                     CURKENT FILING DATE: 2005-03-07

PRIOR APPLICATION NUMBER: US 60/350,978

PRIOR FILING DATE: 2002-01-25

PRIOR APPLICATION NUMBER: UP 2001-379298

PRIOR PILING DATE: 2001-11-05

NUMBER OF SEQ ID NOS: 4096

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 2992

LENGTH: 890
                                                                                                                                APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
TAMECHIKA, ICHIRO
SEKI, NAOHIKO
YOSHIKAWA, TSUTOMU
OTSUKA, MOTOYUKI
NAGAHARI, KENJI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
```

```
163 EQFWVIGGVSAHLFRAVFQGFLKVLGGVDTSFTVTSKAAGDEADAFGDLYLFKWTTLLVVPP 222
                                    ----LPDMLPIKGKFGLFVGMNNSNSGVF-TVFTGVQNFSRIHLVDKWNGLSKIDYWHS 248
                                                                              106 LAYCTIPAVCLLTGKF-IIPTLNNLASIWFIALFLSIIATSVLEL--RWSGVSIEDWWRN 162
                                                                                                                                   BOCNMINGTSGOMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTA----P 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    303 -APDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGL 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  194 LPQIENVKG-----TEDSGTTVLLPLVIFFGLCLLSLLFI-----GLMYRYQRWKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240 KLYSIVCGKS-----TPEKEGEL---EGTTTKPLAPNPS--PS--PTPGFTPTLGFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           195 LPDMLPIKGKFGLFVCMNNSNSGV-----FTVFTGVQNFSRIHLVDKWNGLS-KIDYWHS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              249 BQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFT----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3.2%; Score 84.5; DB 7; Length 453;
26.1%; Pred. No. 4.4;
ive 19; Mismatches 60; Indels 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Rosen, Craig A
TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor 10
FILE REFERENCE: PF379P101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/11/185,878
CURRENT FILING DATE: 2005-07-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILING DATE: 2005-07-21
PRIOR APPLICATION NUMBER: US/10/280,047
PRIOR FILING DATE: 2002-10-25
PRIOR APPLICATION NUMBER: 09/580,212
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 09/086,483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1998-05-29
APPLICATION NUMBER: 60/069,112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/136,786
PRIOR FILING DAYE: 1999-05-28
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PATENTIN VERSION 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/050,936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/144,023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/142,563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    285 PVPSSTFTSSSTYTP--GDCP---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 11
US-11-182-946-3
; Sequence 3, Application US/11182946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-12-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-07-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           48; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best_Local Similarity
Matches 48; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   362 NPNP 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     :| |
330 DPIP 333
                                                                                                                                                                                                                                    DTL 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-11-185-878-5
                                                                                                                                                                                                                                    305
                                    195
                                                                                                                                                                                                                                                                                      223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                            셤
                                                                                                                                   ò
                                                                                                                                                                     셤
                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ώ
ώ
                                                                                                                                                          19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          160 GYRTTFANTQKEVAPKEEV---LPFNAMTVYVQPFKOKAL-----FC----SGMIMILS 206
                                                                                                                                                                                                                                                                                                                                                       61 ILLINAMALVLYGFTGLEGYLVARIMOGVCTAFFSMSLOLGIIDALPEK-----YRS 112
                                                                                                                                                                                                                                                                                                                                                                                                         214 SNSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSBQCNMINGTSGQMWAPFWTPESSLE 273
                                                                                                                                                                                                                                                                                                                                                                                                                                         113 EGVSLYSLFSTIPNL-----LGPLIAVGIWHVE-----NWTIFAIVMIFIAVTTLF 159
                                                                                                                                                                                                                                                                                                        155 LKLAMTLALVTMGQRAFMNRTVGEILWGYDDPFVHF-LNTYLPDMLPIKGKFGLFVGMNN 213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          274 FFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGSVYPPNEGFCPCRESG-IQNVS 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           333 TCRFGA----PLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVK 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ---GIFLTIQAITVV----IAR 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -----YTOLVLM 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    245 FYLRKYVPS-DGLWH-HRFWMIVLTLLMIASIIVAFGPQILSIFVYISAIFIGITQALVY 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            150 SKPVSL--KLMMTLALVTMGQRAFMNRTV-----GEILW----GYDDPFVHFLNTY-- 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SAPINLSDRLHQVLRWALGSVEIFMSRHCPLWYAYGGRLKWLERFAYTNTIVYPFTSIPL 105
                                                                                                                                                                                                                                                      FSANAILNVFIPLRGHDLEATNTVIG--IVMGAYMLTAMLFRPWAGQIIARVGPIKVLRI 60
                                                                                                                                                          Gaps
; OTHER INFORMATION: Description of Artificial Sequence: synthetic; ; OTHER INFORMATION: amino acid sequence US-10-793-626-1512
                                                                                                   ; Score 86.5; DB 6; Length 379;
; Pred. No. 2.2;
49; Mismatches 153; Indels 95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  388 MQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQ-SGAMGGKPLSTF-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Catherine J. Thorpe
TITLE OF INVENTION: Plant Cellulose Synthases
FILE REFERENCE: BB-1170
CURRENT APPLICATION NUMBER: US/91/142,700
CURRENT PILING DATE: 2005-06-01
FRIOR PAPLICATION NUMBER: US/99/720,383
FRIOR FILING DATE: 2000-12-11
FRIOR APPLICATION NUMBER: 60/092,844
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Score 85; DB 7
; Pred. No. 2.4;
31; Mismatches
                                                                                                                                                                                                    113 FVENRSLH-POPDKSHGSESDYIVLPNILVLG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                207 SIVFGAMSTFIPLYTVREGFANA---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  303 PTLTTYLSFVLPKIGRNMLL 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   138 POVLHYAQYVLLGLGGLLLL 457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 6, Application US/11142700 Publication No. US20060026721A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Anthony J. Kinney
Jonathan E. Lightner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gary M. Fader
Saverio Carl Falco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Guo-Hua Miao
J. Antoni Rafalski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 23.5%;
Matches 43; Conservative 3
                                                                                                                                                     83; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Stephen M. Allen
                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-142-700-6
                                                                                                                                                                                                                                                         m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

57;

```
----FF----SPEACRSMKLT 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           287 YNESRVPEGIPTYRF-TAPDTLFANGSVYPPNEGFCPCRESGIONVSTCRFGAPLFLSHP 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             346 HFYNADPVLS-----EAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYI 394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            245 KHKLGGGQYGEVYEGV---WKKYSLTVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQ 300
                                                                                                                                                                                                                                                                                                                               245 KHKLGGGOYGEVYEGV----WKKYSLTVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQ 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 167 Y-EGRVYH----YRINTASD-----GKLYVSSES-------RFNTLAELVHH 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  395 KSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPL-----STFYTQLVLMPQVLHYAQYV 447
                            287 YNESRVFEGIPTYRF-TAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHP 345
                                                                                                                                              346 HFYNADPVLS------EAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVKMOLSLYI 394
                                                                                                                                                                                                          ----ERTDITM 244
                                                                                                                                                                                                                                                                         395 KSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPL-----STFYTQLVLMPQVLHYAQYV 447
                                                                                     ------ŘÝNTLAEĽVHH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              204 KFGLFVGMNNSNSGVFT----VFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3.1%; Score 84; DB 7; Length 1130; 21.1%; Pred. No. 18; tive 36; Mismatches 98; Indels 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Wilson, Mark E.

TITLE OF INVENTION: Pyrrolo-Pyridine Kinase Modulators
FILE REFERENCE: 022132-00451008
CURRENT PRILING DATE: 0205-07-27
CURRENT PILING DATE: 2005-07-27
FRIOR APPLICATION NUMBER: 60/683,510
FRIOR FILING DATE: 2005-05-19
FRIOR FILING DATE: 2005-05-19
FRIOR FILING DATE: 2004-07-27
FRIOR APPLICATION NUMBER: 60/591,888
FRIOR PILING DATE: 2004-07-27
FRIOR PAING DATE: 2004-07-27
FRIOR APPLICATION NUMBER: 60/591,887
FRIOR FILING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR APPLICATION NUMBER: 60/591,887
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
FRIOR PRING DATE: 2004-07-27
                                                                     167 Y-EGRUYH----YRINTASD-----GKLYVSSES---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | | | ::| | ::
202 HSTVADGLITTLHYPAPKRNKPTVYGVSPNYDKWEM-
                                                                                                                                                                                          | | | ::| | ::
202 HSTVADGLITTLHYPAPKRNKPTVYGVSPNYDKWEM-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      259 GOMWAP--FWIPESSLE------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: SGX Pharmaceuticals, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 23, Application US/11192341 Publication No. US20060030583A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Arnold, William D.
Bounaud, Pierre
Gosberg, Andreas
Li, Zhe
McDonald, Ian
Steensma, Ruo W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 64; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                  LLGL 451
                                                                                                                                                                                                                                                                                                                                                                                                                                              301 LLGV 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JS-11-192-341-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-192-341-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                  448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                임
                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ծ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                  셤
                                                                                                                                                 ð
                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S1 KENLLAGPSENDPNLFVALYDFVASGDNTLS----ITKGEKLRVLGYNHNGEWCEAQTKN 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    195 LPDMLPIKGKFGLFVGMNNSNSGV----FTVFTGVQNFSRIHLVDKWNGLS-KIDYWHS 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         249 EQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFT---- 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    204 KFGLFVGMNNSNSGVFT----VFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTS 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     259 GQMWAP--FMTPESSLE-----------------------------SPEACRSMKLT 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           303 -APDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGL 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               242 KLYSIVCGKS-----TPEKEGEL---EGTTTKPLAPNPS--FS--PTPGFTPTLGFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             196 LPQIENVKG-----TEDSGTTVLLPLVIFPGLCLLSLLFI-----GLMYRYQRWKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98; Indels 106; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           57; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.2%; Score 84.5; DB 7; Length 455; 26.1%; Pred. No. 4.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 3.1%; Score 84; DB 7; Length 1130; Best Local Similarity 21.1%; Pred. No. 18; Matches 64; Conservative 36; Mismatches 98; Indels 1º
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1, Application US/11086482;
Publication No. US20060030017A1;
GENERAL INFORMATION:
APPLICANT: Novartis Pharmaceutical
APPLICANT: Fendrich, Gabriele
TITLE OF INVENTION: Three-Dimensional Structure of c-Abl
FILE REFERENCE: 4-33710A;
CURRENT PELLOTION NUMBER: US/11/086,482;
CURRENT FILING DATE: 2005-03-22;
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60; Indels
                                                                               APPLICANT: Ni, Jian
APPLICANT: Reiner
APPLICANT: Ruben, Steven
TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
FILE REFERENCE: 1488.1280004
CURRENT APPLICATION NUMBER: US/11/182,946
CURRENT APPLICATION NUMBER: US/10/186,643
PRIOR FILING DATE: 2002-07-18
PRIOR PILING DATE: 2002-07-02
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin Ver. 2.1
SEQ ID NOS: 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19; Mismatches
Publication No. US20050255100A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 26.1%
Matches 48; Conservative
                                                     APPLICANT: Wei, Ying-Fei APPLICANT: Ni, Jian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; SEQ ID NO 1
LENGTH: 1130
TYPE: PRT
; ORGANISM: homo sapiens
US-11-086-482-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                362 NPNP 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            332 DPIP 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-182-946-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JS-11-086-482-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
```

14;

Connie J

```
NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
                                                                          FILE REFERENCE: 0951-128001
CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31318
PRIOR PLING DATE: 2003-0-01
PRIOR APPLICATION NUMBER: US 60/416,395
                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 11433
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Lawsonia intracellularis US-11-098-686-10289
                                                                                                                                                                                                                     PRIOR FILING DATE: 2002-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       201 IKGKFGLFVGMNNSNSG-
                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
Best Local Similarity 18.84
Matches 74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    173 NRTV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  secs
                                                                                                                                                                                                                                                                                  SEQ ID NO 10289
LENGTH: 636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Search co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |||||
|----MTPEPETPLFSLENIDEYNAVPRVAQDLKGFYGT 1062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .063 WTLKIKACD----RGSEYEP---IIPLTEEPKONCETRDYELTVEPFNYNTPSITYPSRS 1115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1116 AQLRLKYESLQNGRPLVETNGSPLPKFEAIDDDGGIYGDVTFSLTSTNDGEQDHEVFRVD 1175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----DINDHTP-KLPELAADELKVS-ENAKQG-YIVKT---PFAALDLDDKRTF 1018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  --KMQLSLYIKSVKGIGQTGKIE 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                329 IPPIDK--VLQNVTI--SDWKWSNWHVFEIVLMDTNNKQPYHDPFPNDGQVYQFEKIPSN 884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OPDKSHGSESDYIVLPNILVL--GGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEI 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180 LWGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNG 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240 LSKIDYWHSEQCNMINGTSGQMWAPFWIPESSLEFFSPE---ACRSMKLTYNESRVFEGI 296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -VYREFROKVNITFNDNDTVSFV-ENRSLHF 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -PVPFYLSVYFFEVVNPN 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              885 TA-----IVRVEGKDQDRDVPYHTVSYEINYRDFPQLQRYFEVDSTGRAYVKENNDL--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 7; Length 1735;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTYRFTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRF-
                                                                                                                                                                                                                                                                                                    ITLE OF INVENTION: Peptides for Inhibiting Insects ILE REFERENCE: UGR-105CP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3.1%; Score 84; DB 7; Le
ilarity 20.8%; Pred. No. 33;
Conservative 54; Mismatches 147;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APLFLSHPHFYNADPVLS------EAV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   32 VPSLIKQQVLKNVRIDPSSLSFGMWK--EI--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ---LDIHPVTGIPMNCSV---
                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/11/040,472 CURRENT FILING DATE: 2005-01-21
                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/538,715
PRIOR FILING DATE: 2004-01-22
                                                                                                                                                  Application US/11040472
No. US20050283857A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EVLNGQKPVVRERG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , ORGANISM: Anopheles gambiae US-11-040-472-13
                                                                                                                                                                                                               APPLICANT: Adang, Michael
APPLICANT: Hua, Gang
APPLICANT: Chen, Jiang
APPLICANT: Abdullah, Mohd
                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :||:|:
.019 NAKINYYIEE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 100; Conserv
                             111:
301 LLGV 304
LLGL 451
                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1233 P 1233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          408 P 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 13
448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH
ò
                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

RESULT 15 10S-11-098-665-10289 : Sequence 10289, Application US/11098686 ; Publication No. US20060024696A1

```
16;
                                                                                                                                                                                                                                                                                                                                                   ---FFEVVNPNEVLNGQ-KPVVRERGPY--VYREFRQKVNITFNDNDTVS 112
                                                                                                                                                                                                                                                                                                                                                                                                    197 ALSQELSKNGIWSLFSAFRNNQLDYRQFYPVIDKKLAFELLHHELIEPNSVFFNDN---S 253
                                                                                                                                                                                                                                                          142 IGILLCSLGVSWILLRPIAKK---INNIPVPSVRWFFSVW--IILASITTIYSPPTFSNN 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        113 FVENRSLHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFM 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         254 MEWRRYIH----SNSPEKHLNVITIVVESLGSVSLGDRTPHLNDLSKKCLYFTNMKÄTG 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -GEIL--WGYDDPFVHFLNTYLPDMLP 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ----VFTVFTGVQNFSRIHLVDKWNGLSKIDYWH 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --ĠGYĠYPDNMNBEFFSGNGFRIIDRSTIPDBYKTPTNAWGICDBDLFDAVIREADIAYTS 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            248 SEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTA---- 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        416 NKPFYHVALTTSN-HRPFTYPDGRVDVPSGTS-RTGAIKYTDYAI-----HRFLKEAKK 467
                                                                                             Gaps
3.1%; Score 83.5; DB 7; Length 636;
18.8%; Pred. No. 8.9;
ive 54; Mismatches 145; Indels 121;
                                                                                                                                                                         17 LGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              309 TRÍVRGLEAIILSLPPTPGASIVRRPNNHNLFNTGTLFRQRGYDTVFIY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      304 ----PDTLF------ANGSVYPPNEGFCPC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           168 KPWFSDTIFIIVADHTAGSAGKTVLPPDNYDIPC 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    completed: February 23, 2006, 12:51:54
```

THIS PAGE BLANK (USPTO)